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CALENDAR

OF

Queen's College and University

KINGSTON, CANADA.

FOR THE YEAR 1906-1907.

INCORPORATED BY ROYAL CHARTER A.D. 1841.

KINGSTON:
PRINTED FOR THE UNIVERSITY BY THE BRITISH WHIG.
1906.

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1906/7

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ACADEMIC YEAR.

1906.

May 23—Notice of intention to compete for Matriculation Scholarships to be given in writing to the Registrar.

July 2—Matriculation examinations begin at the University and every Collegiate Institute and High School in Ontario.

Sept. 1—Applications accompanied by fee for Supplemental Pass or Matriculation examinations to be made to the Registrar.

" 11—Arts and Science Supplemental Pass examinations begin.

" 13—Supplemental Matriculation examinations begin.

" 19—Medical Supplemental examinations begin.

" 26—Classes in Arts, Applied Science, Medicine and Mining open.

Oct. 16—University Day. Holiday for Athletic Games.

" 18—Candidates for B.D., Supplemental and Matriculation examinations in Theology must give notice of their intention to appear.

" 26—B.D. Supplemental and Matriculation examinations in Theology begin.

Nov. 1—Classes in Theology open.

Dec. 20—Christmas Holidays begin.

1907.

Jan. 3—Classes re-open.

Feb. 15—Holiday.

Mar. 1—Time expires for receiving Theses for Ph.D., D.Sc. and Essays for University Prizes.

" 27—Class work in Arts, Medicine and Mining closes.

April 1—Examinations in Arts, Medicine and Mining begin.

" 5—Class work in Theology closes.

" 8—Examinations in Theology begin.

" 23—Statutory Meeting of Senate for conferring Degrees, &c.

" 24—Convocation for distributing Prizes, announcing Honours and laureating graduates in Arts, Medicine, Science and Theology.

UNIVERSITY OFFICERS.

BOARD OF TRUSTEES.

Retire April 1910	H. A. Calvin	Kingston
Retire April 1909	Rev. G. M. Milligan, B.A., D.D., LL.D.	Toronto
	Rev. Robert Campbell, D.Sc.	Perth
	Hon. Mr. Justice Maclennan, LL.D.	Toronto
	Francis H. Chrysler, B.A., K.C.	Ottawa
	J. Roberts Allan	Ottawa
	John Charlton	Lynedoch
	R. Vashon Rogers, B.A., LL.D., K.C.	Kingston
Retire April 1908	Rev. M. McGillivray, M.A., D.D.	Kingston
	Rev. John Mackie, M.A., D.D.	Kingston
	G. M. Macdonnell, B.A., K.C.	Kingston
	Hugh Waddell	Peterboro
	R. G. Reid	Montreal
	John McIntyre, M.A., K.C.	Kingston
	Donald M. McIntyre, B.A.	Kingston
Retire April 1907	Rev. W. T. Herridge, D.D.	Ottawa
	Rev. D. R. Drummond, M.A.	St. Thomas
	Rev. J. Edgar Hill, D.D.	Montreal
	Sheriff Maclennan, B.A.	Lindsay
	Sir Sandford Fleming, K.C.M.G., LL.D.	Ottawa
	D. B. Maclennan, M.A., K.C.	Cornwall
	P. C. McGregor, B.A., LL.D.	Almonte
Retire April 1906	Rev. Thomas Wardrope, D.D.	Guelph
	Rev. Robert Campbell, M.A., D.D.	Montreal
	Rev. E. D. McLaren, M.A., D.D.	Toronto
	James Douglass, B.A., LL.D.	New York
	And. T. Drummond, B.A., LL.D.	Toronto
	Hon. E. H. Bronson	Ottawa
	A. E. Malloch, M.D.	Hamilton
	George Gillies, B.A.	Toronto

Hon. Mr. Justice Maclennan, LL.D. ..... Chairman.
Geo. Y. Chown, B.A. ..... Secretary-Treasurer.

The Anuual Meeting of the Board will be held in the Senate Chamber on the evening of Wednesday, April 24th.

UNIVERSITY COUNCIL

The Council consists of the Chancellor, the Trustess, the members of the Senate, and an equal number of elective members.

The Chancellor is elected by the Council, except when two or more candidates are nominated, in which case the election is by registered graduates and alumni. He holds office for three years, and, as highest officer of the University, presides at meetings of the Council and Convocation, and at statutory meetings of Senate. In his absence he is represented by the Vice-Chancellor.

Of the elective members eight retire annually, except in every sixth year when ten retire. Successors are elected by registered graduates and alumni. Retiring members may be re-elected.

The Council has power to elect five trustees (one trustee retiring annually); to discuss all questions relating to the College and its welfare; to make representations of its views to the Senate or the Board of Trustees; to decide on proposals for affiliation and to arrange all matters pertaining to the installation of the Chancellor, to its own meetings and business, the meetings and proceedings of convocation, and the fees for membership, registration and voting.

Convocation for the conferring of degrees, etc., will be held upon Wednesday, April 24th, 1907.

ELECTIVE MEMBERS IN THE ORDER OF THEIR RETIRING.

	D. M. McIntyre, B.A. — Kingston
	Rev. J. D. Boyd, B.A. — Kingston
	Rev. James H. Turnbull, M.A. — Ottawa
Retire 1911	G. F. Henderson, B.A. — Ottawa
	Rev. J Cumberland, M.A. — Stella
	A. H. Beaton, B.A. — Toronto
	Rev. James Anthony, M.A. — Waterdown
	Miss Eliza Fitzgerald, M.A. — Niagara Falls, Ont.
	John Marshall, M.A. — Kingston
	J. R. Lavell, B.A. — Smith's Falls
	Rev. James Carmichael, B.D. — King
Retire 1910	W. A. Logie, M.A., LL.B. — Hamilton
	Judge Fraleck, B.A. — Belleville
	R. H. Cowley, M.A. — Ottawa
	R. S. O'Loughlin, M.A. — New York
	Rev. W. W. Peck, M.A., LL.B — Napanee
	Francis King, M.A. — Kingston
	W. F. Nickle, B.A. — Kingston
	Rev. R. Laird, M.A. — Vancouver B.C.
	Rev. N. Macpherson, M.A., B.D. — Indianapolis
Retire 1909	Rev. D. Strachan, B.A. — Brockville
	Andrew Hayden, M.A. — Ottawa
	Rev. James Binnie, M.A., B.D — Tweed
	D. D. Calvin, B.A. — Kingston
	J. H. Mills, M.A. — Waterford
	T. H. Farrell, M.D. — Utica N.Y.

Retire 1908	R. V. Rogers, K.C., B.A., LL.D	Kingston
	H. A. Calvin	Kingston
	J. M. Farrell, B.A	Kingston
	R. J. Maclennan, B.A	Toronto
	R. M. Dennistoun, B.A	Peterboro
	E. B. Echlin, B.A., M.D	Ottawa
	Rev. J. K. Macmorine, M.A., D.D	Kingston
	Geo. W. Mitchell, M.A	Cobourg
Retire 1907	A. G. Farrell, B.A	Smith's Falls
	W. L. Grant, M.A	St. Andrew's College
	Rev. E. D. Maclaren, D.D	Toronto
	H. M. Mowat, B.A., LL.B	Toronto
	H. R. Duff, M.D	Kingston
	Rev. F. G. Kirkpatrick, B.A	Lombardy
	C. F. Hamilton, M.A	Ottawa
	R. N. Horton, M.D	Brockville
Retire 1906	R. S. Minnes, M.A., M.D	Ottawa
	Rev. J. Hay, M.A., B.D	Renfrew
	P. C. McGregor, B.A., LL.D	Almonte
	Rev. James Wallace, M.A	Lindsay
	Jas. Douglas, B.A., LL.D	New York
	E. R. Peacock, M.A	Toronto
	J. McD. Mowat, B.A	Kingston
	Rev. A. H. Scott, M.A	Perth

CHANCELLOR:

SIR SANDFORD FLEMING, C.E., K.C.M.G., LL.D.

PRINCIPAL AND VICE-CHANCELLOR:

VERY REV. DANIEL MINER GORDON, M.A., D.D.

VICE-PRINCIPAL:

JOHN WATSON, M.A., LL.D.

REGISTRAR:

GEORGE Y. CHOWN, B.A.

OFFICERS OF INSTRUCTION:

I.—In Theology.

Very Rev. D. M. Gordon, M.A., D.D. ..... Primarius Professor of Divinity.

Rev. D. Ross, D.D. ..... Professor of Apologetics and New Testament Criticism.

Rev. W. G. Jordon, B.A., D.D. ..... Professor of Hebrew and Old Testament Criticism.

Rev. John Macnaughton, M.A. ..... Professor of Church History and History of Dogma.

Rev. G. M. Milligan, D.D., LL.D. ..... Lecturer on Pastoral Theology.

Rev. J. S. Carruthers. ..... "Watkins" Lecturer on Elocution.

II.—In Arts.

Nathan F. Dupuis, M.A., F. B. S., Edin. ..... Professor of Mathematics.

Rev. George D. Ferguson, B.A. ..... Professor of History.

John Watson, M.A., LL.D. ..... Professor of Moral Philosophy.

D. H. Marshall, M.A., F.R.S.E. ..... Professor of Physics.

James Cappon, M.A. ..... Professor of English Language and Literature.

J. Macgillivray, Ph.D. (Leipsic). ..... Professor of German.

S. W. Dyde, M.A., D.Sc., LL.D. ..... Professor of Mental Philosophy.

Rev. Jas. Fowler, M.A., F.R.C.S. ..... "The John Roberts Allan" Professor of Botany.

Adam Shortt, M.A. ..... "The Sir John A. Macdonald" Professor of Political and Economic Science.

A. P. Knight, M.A., M.D. ..... "The John Roberts" Professor of Animal Biology and Physiology.

E. W. Patchett B.A. ..... "The Wm. McKenzie" Assistant Professor of Modern Languages.

W. G. Jordan, B.A., D.D. ..... Professor of Hebrew.

W. J. Pike, M.A., B.A. (Cantab.) .. Professor of Latin.

Rev. Alexander B. Nicholson, B.A. Professor of Comparative Philology and Sanscrit.

John Marshall, M.A. ..... Assistant Professor of English Languages and Literature.

P. G. C. Campbell, M.A. (Oxon) ... Professor of Romance Languages.

T. Callander, M.A. (Abdn.) B.A. (Oxon) ..... Professor of Greek.

John Matheson, M.A. ..... "The William Nickle" Assistant Professor of Mathematics.

J. A. Petrie, B.A. ..... "The Robert Waddell" Fellow in Hebrew.

R. A. Wilson, M.A. ..... Fellow in Mental Philosophy.

J. M. MacEachran, M. A ..... Fellow in Moral Philosophy.

J. A. Donnell, M.A. ..... Fellow in Political Science.
'01 Fellow in English.

III.—In Practical Science.

Nathan F. Dupuis, M.A., F.B.S. F.R.S.C. ..... Professor of Mathematics and Mechanism and Dean of Faculty.

Wm. L. Goodwin, B.Sc., (Lond.) D.Sc., (Edin.) F.R.S.C ..... Professor of Chemistry, Director of School of Mining.

D. H. Marshall, M.A., F.R.S.E. ... Professor of Physics.

William Nicol, M.A. ..... Professor of Mineralogy and Assaying.

Willet G. Miller, B.A. ..... Professor of Geology and Petrography.

Rev. Jas Fowler, M.A., F.R.S.C. .. Professor of Botany.

A. P. Knight, M.A., M.D. ..... Professor of Animal Biology and Physiology.

L. W. Gill, B.Sc ..... Professor of General and Electrical Engineering.

Stafford Kirkpatrick, M.Sc. ..... Professor of Metallurgy.

Reginald Brock, M.A. ..... Acting Professor of Geology and Petrography.

J. C. Gwillim, B.Sc. ..... Professor of Mining Engineering

N. R. Carmichael. M.A. ..... Associate Professor of Physics.

A. K. Kirkpatrick, C.E. ..... Professor of Civil Engineering.

A. McPhail, B.Sc..... .....Acting Professor of General Engineering.

H. T. Schmidt..... ....Lecturer in Mechanical Engineering.

John Waddell, B.A., D.Sc., Ph.D..Lecturer on Chemistry.

A. Kennedy, M.A..... Lecturer on Applied Mathematics.

W. C. Baker, M.A.. .....Demonstrator in Experimental Physics on "The Robert Waddell" Foundation.

IV.—In Medicine.

Medicine.

James Third, M.D.....Professor of the Principles and Practice of Medicine.

.....Professor of Clinical Medicine and Dermatology.

James W. Campbell, M.D..... Professor of Materia Medica and Therapeutics.

Edward Ryan, B.A., M.D.... ....Associate Professor of Clinical Medicine.

A. E. Ross, B.A., M.D.....Demonstrator of Pharmacology.

W. C. Barber, M.D., Tor.; M.D., C.M., Vic.....Clinical Assistant.

W. C. Herrimen, M.B., Toronto....Clinical Assistant.

Surgery.

Hon. Michael Sullivan, M.D.....Professor of Principles and Practice of Surgery.

D. E. Mundell, B.A., M.D.....Assistant Professor of Surgery.

W. G. Anglin, M.D., M.R.C.S., F.O.S.....Professor of Clinical Surgery.

Obstetrics and Gynaecology.

R. W. Garrett, M.A. M.D.,.....Professor.

Isaac Wood, M.A., M.D., M.R.C.S., Eng., F.O.S., Edin ..... Associate Professor.

Pediatrics.

Isaac Wood, M.A., M.D., M.R.C.S., Eng., F.O.S., Edin., Professor Opthalmology, Otology, Laryngology and Rhinology.

J. C. Connell, M.A., M.D., Dean of the Faculty

Sanitary Science.

W. T. Connell, M.D., M.R.C.S., Eng., L.R.C.P., Lond., Professor.

Pathology and Bacteriology.

W. T. Connell, M.D., M.R.C.S., Eng., L.R.C.P., Lond., Secretary of the Faculty.....Professor.

A. R. B. Williamson, M.A., M.D., M.R.C.S., L.R.C.P.....Demonstrator.

Anatomy.

Edward Ryan, B.A., M.D..... Professor of Anatomy.

D. E. Mundell, B.A., M.D.....Professor of Anatomy.

G. W. Mylks, M.D., C.M..... Assistant Professor and Demonstrator of Anatomy.

C. A. Morrison, M.D., C.M.....Demonstrator of Anatomy.

A .W. Richardson, B.A., M.D., G. W. Mylks, M.D., and A. E. Ross, B.A., M.D..... Demonstrators of Anatomy.

F. Etherington, M.D., M.R.C.S., Edin.....Tutor in Anatomy and Lecturer in Animal Morphology.

Medical Jurisprudence and Toxicology.

A. R. B. Williamson, M.A., M.D., M.R.C.S., L.R.C.P., Professor.

John McIntyre, M.A., K.C..... Lecturer in Medical Jurisprudence

Mental Diseases.

C. K. Clarke, M.D.....Medical Superintendent Hospital for the Insane.

Biology, Physiology and Histology.

James Fowler, M.A., F.R.S.C. ....Professor of Botany and Vegetable Histology.

A. P. Knight, M.A., M.D.....Professor of Animal Biology, Physiology and Histology.

A. R. B. Williamson.....Tutor in Biology.

I. G. Bogart, M.D.....Tutor in Histology.

Chemistry and Applied Chemistry.

W. L. Goodwin, B.Sc. (Lond.) D.Sc., (Edin.).....Professor.

Issac Wood, M.A., M.D., M.R.C.S. L.R.C.P.. ....Lecturer.

John Waddell, Ph.D., Leip., D.Sc.
Edin..... .....Lecturer.

Physics.

D. H. Marshall, M.A. F.R.S.E....Professor of Physics.
N. R. Carmichael, M.A.....Associate Professor of Physics.
W. C. Baker, M.A.....Demonstrator in Physics.

Librarian and Secretary of the Faculty.

Professor W. T. Connell.

V.—Examiners in Law.

J. L. Whiting, M.A., K.C.....Criminal Law.
R. Vashon Rogers, B.A., K.C. LL.D. Common Law.
G. M. Macdonnell, B.A., K.C.....The Law of Real Property.
R. T. Walkem, LL.D., K.C.... ..Equity.
John McIntyre, M.A., K.C.....Medical Jurisprudence.

OTHER OFFICERS.

Registrar of University Council

FRANCIS KING, M.A.

Observatory Board

THE PRINCIPAL.

Curators of Library

PROFESSORS ROSS, KNIGHT, SHORTT AND MACGILLIVRAY.

Librarian

MISS LOIS SAUNDERS.

Curators of Museum

PROFESSORS OF BIOLOGY AND GEOLOGY.

Examiner in Medical Matriculation

ARTHUR E. ROSS, B.A., M.D.

Examiners in Gaelic

REV. M. MACGILLIVRAY, M.A., AND JOHN MATHESON, M.A.

Janitor

JOHN V. BURTON.

TIME TABLE—ARTS.

HOUR.	MONDAY	TUESDAY	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8	Jr. English, A.B. *German. Sr. Hebrew. *Mineralogy.	Jr. English. B. *German. *Mineralogy.	Jr. English. A. *German. Sr. Hebrew. *Mineralogy.	Jr. English. B. *German. Sr. Chemistry, III *Mineralogy.	Jr. English. A. *German. Sr. Hebrew. *Mineralogy.	*‡Assaying.
9	Jr. Greek. Con. History. Ment'l Philosophy Animal Biology. El. Mineralogy. *Philosophy, *Pol. Science.	Jr. Greek. Med. History. Moral Philosophy. Sr. Physics. *Philosophy *Pol. Science.	Jr. Greek. Con. History. Ment'l Philosophy An. Biology. *Philosophy. *Pol. Science. *Mineralogy.	Jr. Greek. Med. History. Moral Philosophy Sr. Physics. *Philosophy. *Pol. Science.	Jr. Greek. Med. History. Ment'l Philosophy. Animal Biology. *Philosophy. *Pol. Science. *Mathematics.	*‡Assaying.
10	Sr. French. Economics. Jr. Physics. *Latin. *Italian. *History. *Physics. *Philosophy. *Geology.	Sr. French. Sr. English. A. Sr. Politics. Sr. Mathematics. Botany. *Latin. *German. *History. *Spanish. *Geology.	Sr. English. B. Economics. Jr. Physics. Botany. *Latin. *Italian. *History. *Philosophy. *Mathematics. *Geology.	Sr. French. Sr. Politics. Sr. Mathematics. Botany. *Latin. *German. *History. Biol. Laboratory. *Spanish. *Mineralogy *Geology.	Sr. French. Economics. Jr. Physics. *Latin. *History. Biol. Laboratory. *Mathematics. *French. *Geology.	*‡Assaying.
11	Sr. Latin. Jr. German. Jr. Chemistry. A. *English. *Greek. *Mathematics. *Botany. *Geology.	Sr. Latin. Jr. German. Jr. Chemistry. *Anglo-Saxon. *Greek. *Mathematics. *Botany. *Geology.	Sr. Latin. Jr. German. *English. *Greek. *Mineralogy. *Botany. *Geology.	Sr. Latin. Jr. German. Sr. Chemistry. I. *French. *Greek. *Mathematics. *Botany. *Geology.	Sr. Latin. Jr. German. Sr. Chemistry, II. *English. *Greek. *Botany. *Geology.	*‡Assaying.

12	Jr. Latin. Sr. Greek. Sr. German. *French. *Philosopy. *An. Biology.	Jr. Latin. Sr. Greek. Sr. German. Jr. English. A. *French. *Sanscrit. *Philosophy. *An. Biology.	Jr. Latin. Sr. Greek. Sr. German. *French. *Sanscrit. *Philosophy. *An. Biology.	Jr. Latin. Sr. Greek. Sr. German. Jr. English. B. *French. *Philosophy. *An. Biology.	Jr. Latin. Sr. Greek. Sr. German. *Latin. *French. *Philosopy. *Philology. *An. Biology. Astronomy.	*‡Assaying
2	Jr. French. Sr. English. A. *Mineralogy.	Jr. French. Sr. English. B. Geology. *Physics. *Chemistry.	Jr. French. Sr. French. Sr. English A. *Physics.	Jr. French. Sr. English. A & B Geology. *Physics.	Jr. French. Sr. English. B. *English. Blowpipe Analysis.	*‡Assaying.
3	Jr. Mathemat. Jr. Chemistry. A. (Practical) *Chemistry.	Jr. Hebrew. *Physics. *Chemistry.	Jr. Mathemat. *Chemistry.	Jr. Hebrew. *Mathematics. *Physics. *Chemistry.	Jr. Hebrew. Jr. Mathemat. Jr. Chemistry. B. (Practical) *Chemistry.	*‡Assaying.
4	*Mathematics.	*Mathematics.	*Mathematics.			*‡Assaying.

*Denotes Honours.
‡Second term only.

TIME TABLE—THEOLOGY.

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	
9	Sr. Hebrew.	*O.T. Criticism	*Ch. History	*O.T. Criticism	*N.T. Criticism Sr. Hebrew.	
10	N.T. Criticism	History of Dogma.	O.T. Criticism	N.T. Criticism	O.T. Criticism	
11	Ch. History.	Divinity.	Divinity.	Ch. History.	Ch. History.	
12	Homiletics.	Apologetics.	Apologetics.	Apologetics.	Homiletics.	
3		Eng. Bible. Jr. Hebrew.		Eng. Bible. Jr. Hebrew.	Jr. Hebrew.	

*Denotes Honours. Classes for post graduate work will be arranged at the beginning of the session.

JUNIOR AND SENIOR MATRICULATION EXAMINATIONS.

SEPTEMBER, 1906.

			9 A.M.	2 P.M.
Thursday,	13th	Sept.	—English Composition.	Eng. Literature.
Friday,	14th	"	—History.	Euclid.
Saturday,	15th	"	—Latin Authors.	Latin Grammar and Compositlon.
Monday,	17th	"	—Physics.	
Tuesday,	18th	"	—Arithmetic.	Algebra.
Wednesday,	19th	"	—French Authors.	French Grammar & Composition.
Thursday,	20th	"	—Greek Authors.	Greek Grammar & Composition.
			German Authors.	German Grammar & Composition.
Friday,	21st	"	—Botany.	Animal Biology.
Saturday,	22nd	"	—Chemistry.	English Grammar.

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PASS SUPPLEMENTAL EXAMINATIONS.

SEPTEMBER, 1906.

			9 A.M.	2 P.M.
Tuesday,	11th	Sept.	—Jr. Latin.	Sr. Latin.
Wednesday,	12th	"	—Economics.	Politics.
Thursday,	13th	"	—Jr. English.	Sr. English.
Friday,	14th	"	—Medieval History	English Constitutional History.
Saturday,	15th	"	—Mental Philosophy.	Moral Philosophy.
Monday,	17th	"	—Jr. Physics.	Sr. Physics.
Tuesday,	18th	"	—Jr. Mathematics.	Sr. Mathematics.
Wednesday,	19th	"	—Mineralogy.	Geology.
			*Jr. French.	**Sr. French.
Thursday,	20th	"	—Jr. Greek.	Sr. Greek.
			*Jr. German.	**Sr. German.
Friday,	21st	"	—Botany.	Animal Biology.
Saturday,	22nd	"	—Jr. Chemistry.	Sr. Chemistry.
Tuesday,	23rd	Oct.	—Jr. Hebrew.	Sr. Hebrew.

*8.30 Dictation: **1.30 Dictation.

PASS EXAMINATIONS.

APRIL 1907.

ARTS.

		9 A.M.	2 P.M.
Monday,	1st April—	*Jr. French.	**Sr. French.
Tuesday,	2nd "	—Jr. Chemistry.	Sr. Chemistry.
Wednesday,	3rd "	—Jr. English.	Mineralogy.
Thursday,	4th "	—Sr. English.	Geology.
Friday,	5th "	—Economics.	Politics.
Saturday,	6th "	—Jr. Mathematics.	Medieval History.
Monday,	8th "	—Sr. Mathematics.	English Const. Hist'y
Tuesday.	9th "	—Jr. Latin.	Sr. Latin.
Wednesday,	10th "	—Mental Philosophy.	Moral Philosophy.
Thursday,	11th "	—Jr. Physics.	Sr. Physics.
Friday,	12th "	—*Jr. German.	**Sr. German.
Saturday,	13th "	—Jr. Greek.	Sr. Greek.
Monday,	15th "	—Botany.	Animal Biology.
Tuesday,	16th "	—Jr. Hebrew.	Sr. Hebrew.

THEOLOGY.

		9 A.M.
Wednesday,	10th "	—Church History.
Thursday,	11th "	—O. T. Criticism.
Friday,	12th "	—Sr. O. T. Criticism.
Saturday,	13th "	—New Testament Criticism.
Monday,	15th "	—Divinity.
Wednesday,	17th "	—Apologetics.

Three hours allowed for each paper.

Time Table for Honour Examinations. will be issued in March.

*8.30 Dictation. **1.30 Dictation.

GENERAL ANNOUNCEMENTS.

QUEEN'S COLLEGE has, under its Royal Charter, "the style and privileges of a University."

The Sixty-sixth Session will open on Wednesday, the 26th of September, 1906.

A compilation of statutes and by-laws containing information for students is published separately. Copies are to be obtained from the Registrar.

BOARDING.—Lists of boarding houses may be obtained from the Registrar. A residence for a limited number of women students has been recently established. Persons desiring information should write to "The Secretary of Woman's Residence, Queen's University, Kingston.

HOSPITAL PRIVILEGES.—The Governors of the Kingston General Hospital agree to give to those students who take out Hospital tickets (cost $1) all the advantages of a private room, including room, board, attendance of nurses in training, and ordinary medicines, when requiring medical or surgical treatment, from October 1st to May 1st. These benefits are conditional on 250 students taking out tickets.

REGISTRATION.—All students are required to have their names entered in the University Register. Before registration they must pay the required fees.

ATTENDANCE AT CHURCH.—All students are expected to attend the churches to which they profess to belong, and produce certificates of attendance from their clergyman when required.

THE LIBRARY contains about 46,000 volumes. Students are entitled to the use of it subject to by-laws.

THE MUSEUM.—The Geological collections, embracing rocks, minerals and fossils, contain the following:

1. The Bell collections, illustrating a north and south stratigraphical section across the Province from Lake Erie, 1,000 specimens. Section across the Ottawa River, 500.

2. Specimens of rocks and minerals from various sources, 3,600.

3. Specimens of fossils, 5,000. The rocks and Minerals contributed and collected during late years are deposited in the collections of the School of Mining.

4. The Botanical collection contains 1,200 genera, 3,650 species, and 9,450 sheets of mounted plants. The private herbarium in the museum contains 2,157 genera, 8,654 species, and 14,731 sheets. These include large collections of Tasmanian, Australian, South African, European and Asiatic species. The flora of the British Islands is almost completely represented. A large addition has been recently made to the herbarium.

5. The zoological collection contains: Mammals, 26; birds, 130; fish, 40; invertebrates, about 200 in alcohol and 150 dry; a small collection of reptiles, and another of insects; the mollusca are represented by about 2,600 shells.

ACADEMIC COSTUME.—All graduates and undergraduates when attending class or any college meeting, shall wear the costume prescribed by the University.

Each degree has its distinctive hood, as follows: B.A., black, bordered with red silk; M.A., scarlet; B.Sc., black silk, bordered with yellow silk; D.Sc., black silk, lined with blue silk, bordered with white; M.D., scarlet, bordered with white; B.D., white, bordered with crimson plush; D.D., black silk, lined with white silk; LL.B., blue, bordered with white fur; LL.D., black silk, lined with blue silk; Ph.D., black silk, lined with purple, bordered with white.

FEES.—Graduation and spring examination fees must be paid before March 23rd, supplemental examination fees before September 1st; all other fees on or before October 6th.

FEES: (1) FACULTY OF ARTS.

Senior Matriculation Examination		$10 00
Senior Matriculation on *pro tanto* certificate		10 00
Junior Matriculation Examination		5 00
Athletics	per session	2 00
Registration	"	10 00
Class Fees	"	25 00
†Any class except those mentioned below	"	8 00
†Junior Chemistry	"	12 00
†Senior Chemistry	4"	12 00
*Pass Examination	"	8 00
*Honour Examination	"	10 00

SPECIAL FEES.

Laboratory—Honour Qualitative Analysis	per session	$15 00
" Honour Quantitative Analysis	"	15 00
" Physics, Pass Course	"	2 00

†These fees apply only to unmatriculated students who do not pay full class fees.

"	Physics, Honour	"	10 00
"	Botany, Pass Course	"	1 00
"	†Botany, Honour Course	"	3 00
"	Animal Biology, Pass Course	"	5 00
"	Animal Biology, Prelim'y Hon's	"	15 00
"	Animal Biology, Final Honours	"	10 00
Junior Philosophy (correcting essays)			1 00
Matriculation Certificate			5 00
Certificate of standing			1 00
Graduation—Bachelor of Arts (B.A.)			10 00
"	Master of Arts (M.A.)		20 00
"	Doctor of Philosophy (Ph.D.)		50 00
"	Doctor of Science (D.Sc.)		50 00
Admission ad eundum gradum (B.A.)			20 00
" "	statum		10 00

Students taking Physics, Chemistry, Geology or Mineralogy must register in the School of Mining, pay the fee of $1.00 and make a deposit of $5.00.

†Students collecting 200 specimens for their own use will be exempt from this fee.

*Students who have paid the examination fee in April can write on the September examinations on payment of $4.00.

Fees: (2) Faculty of Practical Science.

Matriculation Examination (September)		$ 5 00
Registration	per session	10 00
Athletics	"	2 00
†Class Fees	"	60 00
*Pass Examination	"	8 00

For Students not Paying Class Fees as Above.

Any Class	per session	$12 00
Laboratory—Qualitative Analysis	"	15 00
" Quantitative Analysis	"	15 00
" Mechanical and Engineering	"	20 00
" Honour Practical Physics	"	10 00
" Pass Practical Physics	"	2 00
" Petrography	"	5 00
" Assaying	"	5 00
Certificate of standing		1 00
Graduation.—B.Sc		20 00
" M.E		20 00
Admission ad eundum statum		10 00

*Students who have paid the examination fee in April can write on the September examination on payment of $4.00.

†Any student registered in 1905 or previously will only require to pay $50 class fees per session.

Fees: (3) Faculty of Medicine.

Matriculation Examination..... ....$5 00

The Sessional Fee, including Classes, Registration, Athletics, Library, Examination, Laboratories, and the required amount of dissection material is $100 per session. If paid before October 6th, $95. If not paid before January 10th, $105. Special arrangements will be made with those who do not take the full course of any year.

Special Fees.

Graduation—M.D., C.M.... ....$30	00
Fifth year....	50 00
Supplemental Examinations....	10 00
Hospital Ticket—Full Course....	20 00
Hospital Ticket—Single Session.....	7 00
Ad eundum statum....	10 00
Exclusive use of Microscope per Session....	5 00

For further information apply to Dr. W. T. Connell, Secretary, Medical Faculty.

Fees: (4) Faculty of Theology.

Registration.... ....per session	$	5 00
Matriculation.... .... "		2 00
Athletics.... .... "		2 00
Pass Examination.... .... "		3 00
Supplemental Pass Examination.... .... "		3 00
*B.D. Examination..... .... "		6 00

Special Fees.

Testamur..... ....$	2 00
Graduation.—Bachelor of Divinity....	20 00
Admission ad eundum statum....	10 00

Fees: (5) Faculty of Law.

Registration.... ....per session	$	10 00
Examination.... .... "		10 00

Special Fees.

Graduation.—Bachelor of Laws (LL.B.)..... ....$	20 00
Admission ad eundum gradum.....	20 00
Admission ad eundum statum.....	10 00

(6) Agriculture.

For information apply to J. W. Mitchell, B.A., Superintendent of Dairy School.

*Students who have paid the examination fee in April can write on the September examinations on payment of $3.00.

FACULTY OF ARTS.

ARTICLE I.—PASS MATRICULATION.

GENERAL REGULATIONS.

1. The Classes in the University are open to unmatriculated students but candidates for a degree must pass the matriculation examination or an examination accepted by the Senate as equivalent before being admitted to examination on the Unievrsity courses.

2. Any person presenting a Departmental certificate of matriculation will be admitted as an undergraduate upon paying the registration fee. Any person will be exempt from any part of the Matriculation Examination already passed.

3. Any person presenting a Junior Leaving certificate will be permitted to enter upon a University course in Arts, but he must the firs year of his course come up for examination either in the Matriculation work or Junior class work in Latin and must in his first or second year come up for examination either in the Matriculation or Junior class work in one of Greek, French, German.

4. The examination in July will be that conducted for the Universities by the Education Department, known as the Departmental Junior Matriculation Examination. The examination will be held at Queen's University and at the various Collegiate Institutes and High Schools in Ontario. Candidates for this examination, if they propose to write at a Collegiate Institute or High School, must notify the Public School Inspector of their city or county, and pay him the fee before May 23rd, and at the same time send notice to the University Registrar on a form which will be supplied on application. Can-

didates proposing to write at Queen's University must send the required notice to the Registrar by May 3rd, accompanied by the fee.

5. A second examination will begin at Queen's University on September 14th, 1906. Notice of intention to appear at this examination, together with the fee, must be sent to the Registrar by September 1st, on a form which will be supplied on application. A candidate failing partially in July and desiring to complete the examination in September, and who did not write at Queen's University, must send a copy of the marks obtained in the July examination, certified by the headmaster of the school at which he wrote.

6. The fees for Matriculation are:—Junior Matriculation, $5.00; Supplemental examination, in Junior Matriculation subjects in which the candidate has failed, $2.00 for each subject; total fee not to exceed $5.00. Senior Matriculation, $10.00.

7. All Candidates for Junior Matriculation shall take English Composition, English Literature, English Grammar, Algebra, Euclid, Arithmetic, History, British, Canadian and Ancient, Latin, and any two of Greek, French, German, Experimental Science, (Physics and Chemistry.)

8. The percentage for Pass is thirty-three and one-third on each paper. The marks for sight work on each of the "Authors" papers shall not constitute more than thirty-three and one-third per cent. of the whole of the marks for the paper.

9. Candidates who matriculate in any University in the British Empire will be allowed to enter upon a course without further examination. Matriculation Examina-

tion from Universities in other countries will be accepted *pro tanto.*

10. Teachers' examinations are accepted *pro tanto* in lieu of the Matriculation Examination, *i.e.,* in so far as the subjects correspond as follows:—

Ontario	Jr. Leaving.
Prince Edward Island	Second Class.
Nova Scotia	Grade XI.
New Brunswick	Second Class.
Quebec	Academy Grade III. or University School AA.
Manitoba	Second Class.
Alberta	Grade VII.
Saskatchewan	Grade XII.
British Columbia	Intermediate.

11. In the case of students over the age of 21 the Senate may postpone the Matriculation examination.

12. Junior Leaving certificates will be accepted *pro rata* at the Junior Matriculation examination.

13. Matriculation scholarships will be awarded on the results of the July Departmental Matriculation examination. See article on Matriculation Scholarships.

14. Candidates for scholarships must notify the Registrar not later than May 23rd, stating distinctly where they intend to write, and declaring their intention to enter, if successful, on a course of study in Queen's University.

SPECIAL RATES FOR STUDENTS ATTENDING QUEEN'S UNIVERSITY OR THE SCHOOL OF MINING.

Territory:—Between any station on the Canadian Pacific Railway, the Grand Trunk Railway and the Intercolonial Railway in Canada and Kingston, either direct or over any one of the other lines, where the one way regular first-class rate is $20 or more.

Condition:—Any student coming to attend Queen's College or the School of Mining *for the first time* a cer-

tificate to that effect will be accepted from parent, guardian, clergyman or magistrate. Subsequently, going or returning from Kingston, certificates must be signed by the Registrar of the University.

Rate:—One way continuous passage tickets will be issued at half the regular, first-class, one way rate, *minimum rate to be charged $20. For example, if the first-class, one way rate is $50, $25 will be charged, but if the one way rate is less than $40, $20 will be collected.*

SUBJECTS OF JUNIOR MATRICULATION.

Greek.

Translation into English of passages from prescribed texts.

Translation at sight (with the aid of vocabularies) of easy Attic prose, to which special importance will be attached.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation from English into Greek of sentences and of easy narrative passages based upon the prescribed prose texts.

The following are the prescribed texts:—

Selections from Xenophon, Anabasis I., in White's First Greek Book, with the exercises thereon; Homer, Iliad VI.

1907: Selections from Xenophon, Anabasis I., in White's First Greek Book, Herodotus, Tales, ed. Farnell. (I-XI).

Two papers will be set: (1) Prescribed texts and translation at sight; questions on grammar; (2) the translation of English into Greek.

Latin.

Translation into Latin of English phrases and easy sentences to illustrate Latin accidence and the common rules of Latin syntax.

Translation into Latin of easy narrative English based upon the first twenty-five chapters of the prescribed Caesar.

Translation at sight (with the aid of vocabularies) from some easy prose author.

Translation from prescribed texts, with grammatical and other questions naturally arising from the extracts set for translation.

The following are the texts prescribed:—

Cornelius Nepos, Lives of Themistocles and Aristides; *Caesar,* Bellum Gallicum, Bk. IV. (omitting Chap. 17), and Bk. V. Chaps. 1-23; *Virgil, Æneid,* Bk. II. (1-505).

Two papers will be set: (1) Translation of English into Latin. (2) Prescribed texts and translation at sight, with questions on grammar, etc.

N.B.—The Roman method of pronouncing Latin is recommended.

English.

Grammar and Rhetoric: The main facts in the development of the language. Etymology and syntax, including the logical structure of the sentence and the inflection, classification and elementary analysis of words. The rhetorical structure of the sentence and paragraph.

One examination paper.

Composition.—An essay on one of several themes set by the examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and proper construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of the thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay; but quality, not quantity, will be mainly regarded.

One examination paper.

Literature.—Such questions only shall be set as may serve to test the candidate's familiarity with, and intelligent and appreciative comprehension of, the prescribed texts. The candidate will be expected to have memorized some of the finest passages. In addition to questions on the prescribed selections, others shall be set on a "sight passage" to test the candidate's ability to interpret literature for himself.

One examination paper.

1907: Tennyson, Ode to Memory, The Dying Swan, The Lotus Eaters, Ulysses, "You ask me, why," "Of old sat Freedom," "Love thou thy land," "Tears, idle tears," and the six interlude songs from The Princess, The Brook, Ode on the Duke of Wellington, Charge of the Light Brigade, Enoch Arden.

Shakespeare: Julius Cæsar.

1908: Longfellow, Evangeline, The Day is Done, The Old Clock on the Stairs, The Fire of Driftwood, Resignation, The Warden of the Cinque Ports, The Bridge, a Gleam of Sunshine.

Wordsworth, "Three years she grew in sun and shade," "She was a Phantom of delight," "There is a Flower, the lesser Celandine," To a Skylark, (Ethereal minstrel! pilgrim of the sky!"), The Green Linnet, To the Cuckoo, "With little here to do or see."

Shakespeare, Macbeth.

German.

The candidate's knowledge of German will be tested by: (1) simple questions on Grammar; (2) the translation of simple passages from English into German; (3) translation at sight of

easy passages from modern German, and (4) an examination on the following texts:—

Grimm, Rotkäppchen; *Anderson,* Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär; *Ertl,* Himmelsschlüssel; *Frommel,* Das eiserne Kreuz; *Baumbach,* Nicotiana, Der Goldbaum; *Heine,* Lorelei, Du bist wie eine Blume; *Uhland,* Schäfer's Sonntagslied, Das Schloss am Meer; *Chamisso,* Das Schloss Boncourt; *Claudius,* Die Sterne, Der Riese Goliath; *Goethe,* Mignon; Erlkönig, Der Sänger; *Schiller,* Der Jüngling am Bache.

1907: *Hauff,* Das Kalte Herz.

1908: *Leander,* Täumerein, pp. 45-90, (selected by Van Daell).

Two papers will be set: (1) Prescribed texts and translations at sight; questions on Grammar; (2) the translation of English into German.

French.

The candidate's knowledge of French will be tested by: (1) simple questions on Grammar; (2) the translation of simple passages from English into French; (3) translation at sight of easy passages from modern French, and (4) an examination on the following texts:—

Lamennais, Paroles d'un croyant Chaps. VII and XVII; *Perrault,* Le Maître Chat, ou le Chat Botté; *Dumas,* Un nez gelé and la Pipe de Jean Bart; *Alphonse Daudet,* la Dernière classe, and la Chèvre de M. Seguin; *Legouvé,* la Patte de dindon; *Pouvillon,* Hortibus; *Loti,* Chagrin d'un Vieux forçat; *Moliere,* l'Avare, Acte III, sc. 5 (Est-ce à votre cocher....sous la mienne); *Victor Hugo,* Waterloo, Chap. IX; *Rouget de L'Isle,* la Marseillaise; *Arnault,* la Feuille; *Chateaubriand,* l'Exilé; *Théophile Gautier,* la Chimère; *Victor Hugo,* Extase, Lamartine, l'Automne; *De Musset,* Tristesse; *Sully Prudhomme,* le Vase brisé; *La Fontaine,* le Chêne et le Roseau.

1907: Labiche, la Grammaire.

Two papers will be set: (1) Prescribed texts and translation at sight; questions on Grammar; (2) the translation of English into French.

History.

Great Britain and Canada from 1763 to 1885, with the outlines of the preceding periods of British History.

The geography relating to the history prescribed.

1908: Meilhac et Halévy, l'Eté de la Saint Martin.

One half examination paper.

General outlines of Greek History to the fall of Corinth.

General outlines of Roman History to the death of Augustus.

The Geography relating to the history prescribed.

One half examination paper.

MATHEMATICS.

Arithmetic: Elementary Rules; Fractions (Vulgar and Decimal), Interest, Discount, and easy problems in Stocks.

Special importance will be attached to accuracy and neatness.

One examination paper.

Algebra.—Elementary rules, highest common measure, lowest common multiple, fractions, square root, simple equations of one, two and three unknown quantities, indices, surds, quadratics of one and two unknown quantities.

One examination paper.

Geometry.—In 1907 the examination in Geometry will be based on a short course in practical Geometry, involving the use of the rule, compass and protractor, and on a course in formal deductive Geometry, which will be defined in a syllabus to be issued by the University.

ELEMENTARY EXPERIMENTAL SCIENCE.

Physics: Use of the metre rule; use of calipers and vernier for more accurate metric measurements (*e.g.*, diameters of wires, thickness of glass, plates, etc.); numerical calculations, in the metric system.

Use of balance.

Specific gravity, by specific gravity bottle and hydrostatic balance, of liquids and of solids.

Boyle's law; barometer; diffusion of gases.

Use of Fahrenheit and centigrade thermometers; determination of zero and boiling point; boiling point dependent on pressure.

Expansion of solids, liquids and gases, examples.

Specific heat; latent heat; easy numerical examples.

Transmutation of matter; indestructibility of matter.

Solution, precipitation, crystallization and evaporation.

One half examination paper.

Chemistry: Properties of hydrogen, chlorine, oxygen, sulphur nitrogen, carbon and their most important compounds. Nomenclature. Laws of combination of the elements. The atomic theory and molecular theory.

One half examination paper.

ARTICLE II.—SENIOR MATRICULATION.

1. Candidates who intend to pursue an Honour Course in the University are recommended to take the Senior Matriculation (Form IV) in as many subjects as possible.

2. Candidates for Senior Matriculation shall take English, Latin, History, Mathematics, and any two of Greek, French, German, Experimental Science (Physics and Chemistry.)

*3. Candidates who have taken forty per cent. on the Senior Matriculation or Senior Leaving papers in Latin, Greek, French, German, Mathematics, English, Chemistry, Physics, Botany, or Animal Biology, will, on payment of the *pro tanto* fee, not be required to take the University Junior class in the subject. As no student is allowed to pass more than five classes in a session, (see clause 5, article VIII), any one entering under this clause will not be exempt from more than five classes.

4. Any person presenting a Senior Leaving Certificate will be permitted to enter upon a University course, but in his first examination, must include either Junior Latin, Greek, French or German.

*NOTE.—Candidates intending to avail themselves of this clause should write the Deputy Minister of Education, stating where and when they wrote, and have their marks forwarded to the Registrar, who will advise the classes allowed.

SUBJECTS OF SENIOR MATRICULATION.

GREEK.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Greek of ordinary narrative passages of English, similar to the authors read.

The following are the prescribed texts:—

1907: XENOPHON, Selections in White's First Greek Book; HERODOTUS, Tales ed. Farnel; HOMER, Odyssey XXI; LUCIAN, Timon; LYSIAS, Pro Mantitheo and de Invalido.

Two examination papers.

1908: XENOPHON, Selections in White's First Greek Book; HERODOTUS, Tales, ed. Farnel (I-XI); HOMER, Odyssey, XXIII; LUCIAN, Timon; LYSIAS, Pro Mantitheo and de Invalido.

Two examination papers.

LATIN.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar in style to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Latin of easy passages of English, similar in style to the authors read.

The following are the prescribed texts:—

1907: CORNELIUS NEPOS, Lives of Themistocles and Aristides; CÆSAR, Bellum Gallicum, Book IV..omitting Chap. 17, and Book V., Chaps. 1-23; VIRGIL, Æneid II., lines 1-505; HORACE, Odes III. and IV.; CICERO, Pro Lege Manilia, Pro Marcello, Philippic XIV. (Harper's Text.)

1908: CORNELIUS NEPOS, Lives of Themistocles and Aristides; CÆSAR, Bellum Gallicum, Book IV. (omitting Chap. 17) and Book V., Chaps. 1-23; VIRGIL, Æneid II. (1-505); HORACE, Odes Books III., IV.; CICERO, In Catilinam I., III., IV.

Two examination papers.

English.

Composition: An essay, to which special importance will be attached, on one of several themes set by the examiner.

One examination paper.

Literature: The candidate will be expected to have memorized some of the finest passages. Besides questions to test the candidate's familiarity with, and comprehension of, the following selections, questions may also be set to determine within reasonable limits his power of appreciating literary art.

One examination paper.

Shakespeare: The Merchant of Venice, Henry V.

1907: Tennyson, Ode to Memory, The Dying Swan, The Lotus Eaters, Ulysses, "You ask me, why," "Of old sat Freedom," "Love thou thy land," "Tears, idle tears," and the six interlude songs from the Princess, The Brook, Ode on the Duke of Wellington, Charge of the Light Brigade, Enoch Arden.

Shakespeare, Julius Cæsar, Midsummer Night's Dream.

1908: Longfellow, Evangeline, The Day is Done, The Old Clock on the Stairs, The Fire of Driftwood, Resignation, The Warden of the Cinque Ports, The Bridge, A Gleam of Sunshine.

Wordsworth, "Three years she grew in sun and shade," "She was a Phantom of delight," "There is a Flower, the lesser Celandine," To a Skylark ("Ethereal minstrel! pilgrim of the sky!") The Green Linnet, To the Cuckoo, "With little here to do or see."

Shakespeare, Macbeth, Richard II.

German.

The prescription of work in grammar, the translation of English into German and sight translation is the same for honours as for pass, but the examination will be of more advanced character.

The following are the prescribed texts:—

Grimm, Rotkäppchen; *Anderson,* Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär; *Ertl,* Himmelsschlüssel; *Frommel,* Das eiserne Kreuz; *Baumbach,* Nicotiana, Der Goldbaum; *Heine,* Lorelei, Du bist wie eine Blume; *Uhland,* Schäfer's Sonntagslied, Das Schloss am Meer; *Chamisso,* Das Schloss Boncourt; *Claudius,* Die Sterne, Der Riese Goliath; *Goethe,* Mignon, Erlkönig, Der Sänger; *Schiller,* Der Jüngling am Bache.

1907: *Hauff,* Das kalte Herz.

Baumbach, Der Schwiegersohn; *Elz,* Er ist nicht eifersüchtig; *Wichert,* Post Festum.

1908: *Leander,* Träumereien, pp. 45 to 90 (selected by Van Daell).

Baumbach, Der Schwiegersohn; *Elz,* Er ist nicht eifersüchtig; *Wichert,* Post Festum.

French.

The prescription of work in grammar, translation of English into French and sight translation is the same for honours as for pass, but the examination will be of a more advanced character.

The following are the prescribed texts:—

Lamennais, Paroles d'un croyant, Chaps. VII and XVII; *Perrault,* le Maître Chat ou le Chat Botté; *Dumas,* Un nez gelé, and la Pipe de Jean Bart; *Alphonse Daudet,* la Dernière classe, and la Chèvre de M. Seguin; *Legouvé,* la Patte de dindon; *Pouvillon,* Hortibus; *Loti,* Chagrin d'un vieux forçat; *Molière,* l'Avare, Acte, III, sc. 5 (Est-ce à votre cocher....sous la mienne); *Victor Hugo,* Waterloo, Chap. IX; *Rouget De L'Isle,* la Marseillaise; *Arnault,* la Feuille; *Chateaubriand,* l'Exilé; *Theophile Gautier,* la Chimère; *Victor Hugo,* Extase; *Lamartine,* l'Automne; *De Musset,* Tristesse; *Sully Prudhomme,* le Vase brisé; *La Fontaine,* le Chêne et le Roseau.

1907: Labiche, la Grammaire.

Sand, la Mare au Diable.

1908: *Chateaubriand,* Mémoires d'Outre-Tombe (selections pub. Clarendon Press).

Meilhac et Halévy, l'Eté de la Saint-Martin.

History.

English history from the discovery of America to 1763.

General outlines of Greek History to the fall of Corinth.

General outlines of Roman history to the death of Augustus.

The geography relating to the history prescribed.

One examination paper.

Mathematics.

Algebra: Elementary rules; highest common measure; lowest common multiple; fractions; square root; simple equations of one, two and three unknown quantities; indices, surds, quadratics of one and two unknown quantities; theory of divisors; ratio; proportion and variation; progressions; notation; permutations and combinations; binomial theorem; interest forms; annuities.

One examination paper.

Trigonometry: Trigonometrical ratios with their relations to each other; sines, etc., of the sum and difference of angles with deduced formulas; use of logarithms; solution of triangles; expressions for the area of triangles; radii of circumscribed, inscribed and escribed circles.

One examination paper.

Problems: One paper.

Geometry: In 1907, for the examination in Geometry, an examination in Elementary Analytical Geometry, based on a syllabus to be issued by the University, will be substituted.

Physics.

Mechanics: Measurement of velocity; uniformly accelerated rectilineal motion; metre; units of force, work, energy and power; equilibrium of forces acting at a point; triangle, parallelogram, and polygon of forces; parallel forces; principle of moments; centre of gravity; laws of friction; numerical examples.

Hydrostatics: Fluid pressure at a point; pressure on a horizontal plane; pressure on an inclined plane; resultant vertical pressure, and resultant horizontal pressure, when fluid is under air pressure and when not; transmission of pressure; Bramah's press; equilibrium of liquids of unequal density in a bent tube; the barometer; air pump; water pump, common and force; siphon.

Electricity: Voltaic cells, common kinds; chemical action in the cell; magnetic effects of the current; chemical effects of the current; voltameters; electroplating; astatic and tangent galvanometers; simple notions of potential; Ohm's law; shunts; measurement of resistance; electric light, arc and incandescent; current induction; induction coil; dynamo and motor; the joule and watt; electric bell; telegraph; telephone; elements of terrestrial magnetism.

One examination paper.

Chemistry.

Chemical and physical reactions, rates of reactions, reversible reactions, chemical equilibrium. The practical study of the following elements with their most characteristic compounds, having regard to Mendelejeff's classification of the elements, and some of the most important economic and industrial applications; hydrogen, sodium, potassium, magnesium, zinc, calcium, strontium, barium, boron, aluminium, carbon, silicon, tin, lead, nitrogen, phosphorus, arsenic, antimony, bismuth, oxygen, sulphur, fluorine, chlorine, bromine, iodine, manganese, iron, copper, nickel. A report must be furnished showing the amount and

nature of the laboratory work done by each candidate, and the teacher's opinion of his proficiency.

One examination paper.

Biology.

Elements of Zoology: The candidate will be examined practically on his acquaintance with the structure of the various types prescribed below, and must be prepared to sketch the specimens submitted to him.

Vertebrate Types: 1. The fish:—Any one of the common fresh-water fishes of Ontario may be employed for the purpose; special attention should be given to the organs of locomotion, circulation, respiration. As several species are easily obtainable this class may be employed for studying the principles of zoological nomenclature.

2. The frog:—Comparison with the fish as to the organs above mentioned—observation of the development of the spawn of one or more Amphibia.

3. The reptile:—A study of the external form of a turtle and a snake, and comparison of both with a lizard.

4. The bird:—Special attention should be given to the plumage, the bill and feet, and to the modifications of the skeletal, muscular and respiratory systems in connection with aerial life.

5. The mammal:—Characters of the chief domesticated and wild mammals of Ontario must be studied, as well as the main facts of internal structure of one of the smaller forms (the rabbit, e.g.). Comparison of the teeth and feet of the pig, horse, sheep, rabbit, dog, mole, bat.

Invertebrate Types: 1. Study of the Crayfish as a type of the arthropods. Comparison of the external form of the Crayfish with an insect (e.g., grasshopper, cricket or cockroach) also with a millipede and a spider.

2. Unsegmented and segmented worms.

3. Fresh water mussel and snail.

4. A fresh water unicellular animal such as an Amoeba or Paramecium.

The natural habits of the various animals studied.

Elements of zoological classification based on forms studied.

2. Elements of Botany: The examination will test whether the candidate has practically studied representatives of the flowering plants of the locality in which the preparatory school is situated, and representative plants.

ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1906.

A Scholarship cannot be held without attendance on the University classes. To be eligible for free tuition in the remaining sessions of his course the scholar must pass his annual examinations to the satisfaction of the Senate. To hold a Scholarship a candidate must be fully matriculated.*

I.—The following Scholarships, of the value specified, are awarded on the July Departmental Senior Matriculation (Upper School) examinations.

Candidates for Senior Matriculation Scholarships must take Honours in the department or departments specified in connection with the Scholarships.

Name and Source of Money.	*Free Tuition.*	*Total Value.*	*Subjects.*
1. PRINCE OF WALES. $60. Founded by H. M. King Edward VII.	$100	$160	Mathematics Chemistry, and Physics.
2. GOVERNOR-GENERAL. $75. Given by his Excellency the Earl of Minto, LL.D.	100	175	Classics.
2. CHANCELLOR. $100. Founded by Sir Sandford Fleming, K.C.M.G., Chancellor	100	200	Mathematics.
4. MACKERRAS MEMORIAL. $70. Founded in memory of the late Prof. Mackerras	100	170	Classics.
5. WILLIAMSON No 1. $65. Founded in memory of the late Vice-Principal, Rev. Dr. James Williamson.	100	165	English and History.
6. WILLIAMSON No 2. $60. Founded in memory of the late Vice-Principal, Rev. Dr. James Williamson.	100	160	French and German.

ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1906.—(Continued.)

Name and Source of Money.	*Free Tuition.*	*Total Value.*	*Subjects.*
7. LEITCH MEMORIAL No. 1. $60. Founded in memory of the late Principal Leitch.....	$100	$160	English, Chemistry, and Physics or Botany.
8. NICHOLLS FOUNDATION No. 1. $50. Founded by the late Charlotte Nicholls, of Peterboro.....	100	150	English, French and German.
9. MAYOR. $50. Given by the Mayor of Kingston..	100	150	Latin, French and German.
10. MOWAT. $50. Founded by the late John Mowat, Esq., of Kingston.....	100	150	Mathematics.
11. FORBES MCHARDY. $25. Founded by the late Forbes McHardy, Esq., Toronto.	100	125	Mathematics, French and German.

II.—The following Scholarships, of the values specified, are awarded on the July Departmental Junior Matriculation (Middle School) examinations.

Name and Source of Money.	*Free Tuition.*	*Total Value.*	*Subjects.*
1. NICHOLLS FOUNDATION No. 2. $30. Founded by the late Charlotte Nicholls, Peterboro...	$100	$130	General proficiency.
2. KINGSTON. $25. Given by the Hon. Wm. Harty, M.P. for Kingston.....	100	125	Do.
3. NICHOLLS FOUNDATION No. 3. $20. Founded by the late Charlotte Nicholls, Peterboro.....	100	120	Do.

ARTICLE III.—ARTS MATRICULATION SCHOLARSHIPS, 1906.—(Continued.)

III.—The following Scholarships have been endowed under special conditions.

Name and Source of Money.	*Free Tuition.*	*Total Value.*	*Subjects.*
1. WATKINS. $60. Founded by the late John Watkins, Esq., Kingston	$100	$160	Given to the student of the Kingston Collegiate Institute who stands highest in the Form IV. examinations.
2. MCLENNAN GLENGARRY FOUNDATION. $60 a year for four years. Founded by R. R. McLellan, Esq., Alexandria	100	340	General Proficiency. Given only to candidates of one of the High Schools of the County of Glengarry.
3. MARION STEWART MCDONALD. $75. Founded by John S. McDonald, Esq., Fond du Lac, Wis.		75	General Proficiency. Given only to candidates from the County of Glengarry.

Notice of intention to complete for Scholarships must be sent to the Registrar before May 23rd, 1906, on a form which will be supplied on application.

*Candidates who wish to present certificates for any part of Matriculation will forward them with the notice.

Candidates for Junior Matriculation Scholarships will not be eligible to compete for Senior Matriculation Scholarships in any subsequent year. Junior Matriculation Scholarships will only be available the ext ensuing session after they are awarded.

ART. IV. UNIVERSITY PRIZES, MEDALS AND SCHOLARSHIPS.

SPECIAL SCHOLARSHIPS.

THE RHODES SCHOLARSHIP IN CANADA.

Queen's University will, in January, 1907, select a candidate under the Rhodes bequest. The scholar will begin residence at Oxford in October of the year for which he is elected.

The Scholarship is tenable for three years, and is of the value of £300 per annum.

ELIGIBILITY OF CANDIDATES.

1. Candidates shall be British subjects and unmarried. They must have passed their nineteenth but not have passed their twenty-fifth birthday, on October 1st of the year for which they are elected.

2. An elected scholar must have reached at least the end of his sophomore or second year's work at some recognized degree-granting University or College of Canada.

3. Candidates may elect whether they will apply for the Scholarship of the Province in which they have acquired any considerable part of their educational qualification, or for that of the Province in which they have their ordinary private domicile, home or residence. They must be prepared to present themselves for examination or election in the Province they select. No candidate may compete in more than one Province, either in the same or in successive years.

4. Only candidates who have passed an equivalent to the Oxford Responsions Examination, or those who are exempted from Responsions by the Colonial Universities' Statute, are eligible for election.

Queen's University having applied for and been admitted to the privileges of the Colonial Universities' Statute, candidates coming from Queen's University who have fulfilled the conditions are accepted as candidates for Rhodes' Scholarships without further examination.

METHOD OF SELECTION.

In accordance with the wish of Mr. Rhodes, the Trustees desire that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainment, (2) his fondness for and success in manly out-door sports, such as cricket, football and the like, (3) his qualities of manhood, truth,

courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness and fellowship, and (4) his exhibition during school-days of moral force of character, and of instincts to lead and to take an interest in his schoolmates." Mr. Rhodes suggested that (2) and (3) should be decided in any School or College by the votes of fellow-students, and (4) by the Head of the School or College.

Where circumstances render it impracticable to carry out the letter of these suggestions, the Trustees hope that every effort will be made to give effect to their spirit, but desire it to be understood that the final decision must rest with the Committee of Selection.

Rhodes Scholar, 1905: J. M. Macdonnell, M.A.

EXHIBITION OF 1851, SCIENCE RESEARCH SCHOLARSHIP.

This scholarship, of the annual value of £150 stg., is awarded by Her Majesty's Commissioners for the Exhibition of 1851 to students who have given evidence of capacity for original research, and (except in very special circumstances) are under 30 years of age.

The nominee must be a British subject, must have been a *bona fide* student of this University for three years, must have been a student of this University for a full year immediately before his nomination, must be a student of this University at the time of his nomination, (or he must have been a student at this University for a full year ending within twelve months prior to his nomination and since ceasing to be such student must have been engaged solely in scientific study) and must pledge himself not to hold any position of emolument whilst holding the scholarship. He is recommended to the Commissioners by the Senate of the University. The scholarship may be held for a second year, if the report of the first year's work be satisfactory to the Commissioners. The scholar will in the absence of special circumstances, be required to proceed to an institution other than that by which he is nominated, and there pursue some investigation likely to promote technical industries or scientific culture. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

The next recommendation will be made by the Senate in April, 1907.

Science Research Scholars recommended by Queen's University:—

Norman R. Carmichael, M.A., 1894-95.
Thomas L. Walker, M.A., 1896-97.
Frederick J. Pope, M.A., 1898-99.
Wm. C. Baker, M.A., 1900.
C. W. Dickson, M.A., 1901-03.
C. W. Knight, B.Sc., 1904.
F. H. McDougall, M.A., B.Sc., 1905.

PRIZES

These are prizes for literary articles, essays, etc., as specified under each particular prize, and are open to students of the present or preceding session.

CONDITIONS OF COMPETITION.—1. Competitive papers must be given to the Registrar not later than 21st of March.

2. Each paper is to bear a motto, instead of the author's name and must have attached to it a sealed envelope, bearing the same motto and containing a written declaration over the author's signature, to the effect that it is his unaided composition.

3. The envelope attached to successful papers shall be opened and the writer's name made known at the Convocation at the close of the session.

4. The best productions must be reported by the examiners to be of sufficient merit.

5. All successful productions shall be the property of the University, and be at the disposal of the Senate.

A.—LEWIS.

Value $25. Given for the best lecture on Mark IV, 26-29.

B.—GOWAN FOUNDATION NO. I.

Value $25. Given by the Hon. Sir James R. Gowan, K. C. M. G., for the best essay on "The Regulation of Railroad Rates; with special reference to Canada."

C.—GOWAN FOUNDATION NO. II.

Value $25. Given by the Hon. Sir James R. Gowan, K. C. M. G., for "The best Collection of Canadian Plants." The collection must be delivered before the 15th of December.

D.—GOWAN FOUNDATION NO. III.

Value $25 in Books. Given by the Hon. Sir James R. Gowan, K. C. M. G., in Honours in Political Science.

E.—LATIN AND GREEK COMPOSITION.

Two prizes, each of the value of $10 in books, are offered for competition for the best composition in Latin and Greek prose respectively. Subjects for composition, 1905-1906: Latin Prose, Mackail's Latin Literature, pp. 99, 100, 101, "No great work of art....the Carthagenian queen." Greek Prose, Sargent and Dallin's Materials and Models for Greek Prose Composition," Nos. 100, 101, 102, 103, pp. 257-261.

F.—SPECIAL FRENCH AND GERMAN PRIZES.

Two prizes each of the value of $10 in books, are offered for the best examination in April in Senior French and Senior German respectively.

G.—JAMES C. ROGERS PRIZE IN ENGLISH.

A prize of the value of $5 in books, awarded by James C. Rogers, B.A., to the student obtaining highest standing in Senior English.

SCHOLARSHIPS IN ARTS AND PRACTICAL SCIENCE.

1.—THE CHANCELLOR'S PRACTICAL SCIENCE SCHOLARSHIP.

Value $70. Given by Sir Sandford Fleming, C.E., K.C.M.G., LL.D., Chancellor of the University. Awarded to the Practical Science student passing the best examination at the end of first year.

2.—NEW YORK QUEEN'S ALUMNI SCHOLARSHIP IN BIOLOGY.

Value $50. Given by the New York Queen's University Society and awarded to the student in Arts or Medicine who obtains the highest number of marks in the honour examinations in physiology and histology.

3.—THE ANN ELIZA STAFFORD SCHOLARSHIP IN ANIMAL BIOLOGY.

Value $40. Founded by T. T. Bower, Esq., Toronto. Awarded to a graduate in first-class honours in Animal Biology who is competent to undertake research work in physiology. The holder must be willing to devote himself exclusively to research and must carry on his investigations in the University laboratories for at least one year from the date of his appointment.

4.—THE M. C. CAMERON SCHOLARSHIP IN GAELIC.

Value $40. Founded by the late M. C. Cameron, M.P., Goderich. Awarded to the best Gaelic scholar, reader and speaker. The examination takes place after the September Matriculation examination. Work prescribed: Ossian's Fingal, Duncan Ban MacIntyre's Poems, Blackie's Language and Literature of the Scottish Highlands. Translation at sight of Gaelic into English and English into Gaelic. This Scholarship will not be awarded to any candidate who does not take at least fifty per cent. of the total number of marks in the examination.

5.—THE HIRAM CALVIN SCHOLARSHIP IN LATIN.

Value $25. Given by Hiram Calvin, M.P., Kingston, to encourage the study of Latin in the University. Awarded on the result of the April examinations in Senior Latin, to the best student who is proceeding to the Honour Course in Latin. Not to be held by any student unless in actual attendance. Not necessarily to be awarded, unless a certain degree of merit is shown.

6.—THE MACLENNAN SCHOLARSHIP IN GREEK.

Value $25. Given by Hon. Justice Maclennan, LL.D., Toronto, to encourage the study of Greek in the University. Awarded on the results of the April examinations in Senior Greek to the best student who is proceeding to the Honour Course in Greek.

Not to be held by any student unless in actual attendance, and not necessarily to be awarded unless a certain degree of merit is shown.

7.—THE '01 FELLOWSHIP IN ENGLISH.

This Fellowship was established by the Class which graduated in 1901. It is awarded by the Senate to the student who is to act as Assistant Tutor in English during the following session.

MEDALS.

University medals will be awarded to the Candidates who obtain the highest number of marks in the Honour courses leading to the degree of M.A.

Candidates for medals will be required at the final examination to take all the Honour papers in the work of the courses which they select. No medal will be awarded to any candidate who fails to obtain three-fourths of the whole number of marks.

SCHOLARSHIPS IN THEOLOGY.

I.—MATRICULATION SCHOLARSHIPS.

1.—DAVID STRATHERN DOW.

Founded in 1886 by David Strathern Dow, Esq., Whitby, Ont. Value $75.

2.—DOMINION.

Founded in 1870 by the late Walter Lawson, Scotland. Value $70.

3.—BUCHAN NO. 1.

Founded in 1875 by the late Rev. Alexander Buchan, Stirling, Ont. Value $65.

4.—BUCHAN NO. 2.

Founded by the late Rev. A. Buchan. Value $55.

5.—BUCHAN NO. 3.

Founded by the late Rev. A. Buchan. Value $45.

6.—M'INTYRE.

Founded in 1876 by Mrs. Margaret W. McIntyre, Perth, Ont. Value $20.

II.—SCHOLARSHIPS AWARDED AT CLOSE OF SESSION.

1.—SARAH M'CLELLAND WADDELL MEMORIAL.

Founded in 1899, by Hugh Waddell, Esq., South Monaghan, Ont., in memory of his mother, Sarah McClelland. Value $120. Awarded upon the Sessional Examination at the close of the first year in divinity, Old and New Testament Exegesis, Church History and Elocution.

2.—THE CHANCELLOR'S.

Awarded to the student of the second year who takes the highest standing in the Sessional Examinations.

3.—SPENCE.

Founded in 1879, by the late Rev. Alex. Spence, D.D., formerly minister of St. Andrew's Church, Ottawa. Value $60. Awarded upon the Sessional Examination at the close of the first year in Divinity, Old and New Testament Exegesis, and Apologetics, or Hebrew. Tenable during second and third year in Theology.

4.—LEITCH MEMORIAL NO. 2.

Founded in 1867, in memory of the late Principal Leitch, by subscribers in Scotland and Canada. Value $80. Awarded upon

a Sessional Examination, and tenable during three successive years, should the successful candidate, after the completion of his Theological curriculum at this University, continue his studies at this or any European University. Candidates must have the degree of B.A. The next competition will take place in 1908. Subjects of examination: The Epistles to the Romans and Hebrews in Greek, Psalms I-XXV in Hebrew, Butler's Analogy, and the Divinity Lectures of the session.

5.—ANDERSON NO. 1.

Founded by the late Robert Anderson, Esq., Montreal. Value $40. Awarded in the first year Divinity.

6.—ANDERSON NO. 2.

Founded by the late Robert Anderson, Esq. Value $35. Awarded in second year Divinity.

7.—THE TAWSE.

Founded by Miss Tawse, King, Ont. Value $40. Awarded in third year Divinity.

8.—TORONTO.

Founded by the Ladies' Association of St. Andrew's Church, Toronto. Value $60. Awarded in second year Hebrew.

9.—ST. ANDREW'S CHURCH, TORONTO.

Given by the Session of St. Andrew's Church, Toronto. Value $45. Awarded in Old Testament Exegesis.

10.—RANKINE NO. 1.

Founded in 1881, by the late Alexander Rankine, Esq., Leamington, England. Value $45. Awarded in Apologetics.

11.—RANKINE NO. 2.

Founded by the late Alexander Rankine, Esq., Leamington, England. Value $45. Awarded in New Testament Exegesis.

12.—GLASS MEMORIAL.

Founded in memory of the late Henry Glass, Esq., of Sarnia, by his widow. Value $30. Awarded in Church History.

13.—MACKIE.

Given by the Rev. John Mackie, M.A., D.D., St. Andrew's Church, Kingston, for the best essay on The Virgin Birth of our Lord. Essays to be handed in not later than Feb. 15th, 1907. For rules of competition see under prizes. Value $25 in books. May be taken by a student holding another scholarship.

14.—JAMES ANDERSON BURSARY.

Founded by the late James Anderson, Acton, Ont. Value $25. Awarded by the Senate to a student who can preach in Gaelic.

15.—WILLIAM MORRIS BURSARY.

Founded by the late Hon. Alexander Morris, in memory of his father. Value $50. Awarded by the Senate to a Divinity student taking a post-graduate course in the University.

PRIZES AND SCHOLARSHIPS IN MEDICINE.

1. The Dr. Hayunga Prize for the best dissection of an upper extremity. This prize consists of some standard work on Surgery, and is open to all students in Medicine.

2. At the end of the second session:

A prize of $25.00 to be awarded to the student making the highest number of marks on this year's examination in Anatomy, Physiology, Histology and Chemistry, Theoretical and Practical.

3. The New York Alumni Association Scholarship of $50.00. Awarded to the student making the highest marks in honour Physiology and Histology papers of the Arts course. Open also to Arts students in Honour Animal Biology.

4. At the end of the second session:

Some standard work on Medicine (value $10), presented by Dr. Geo. Hayunga, of New York, will be awarded to the student making the highest percentage of marks on the year's examination in Materia Medica, Therapeutics and Pharmacy.

5. The Dr. McCabe prize of a standard work on Pathology, for the best written and practical examination on Pathology.

6. At the end of the fourth session:

The Chancellor's Scholarship of $70.00.

This Scholarship is open to students who take the examinations of the Ontario Medical Council, and is tenable only on condition that during the following year the winner pursues the studies of the fifth session at Queen's as prescribed in the Calendar, or studies in Europe for a like period.

This Scholarship will be awarded to the student who has made the highest number of marks on all examinations for the four years' course.

8. A University Medal to the student making the highest number of marks in the examinations in Practice of Medicine, Clinical Medicine, Pathology, Bacteriology, Sanitary Science and Jurisprudence.

9. A University Medal to the student making the highest number of marks in Surgery, Clinical Surgery, Obstetrics and Gynæcology, Medical and Surgical Anatomy.

10-12. Three House Surgeoncies at the Kingston General Hospital, of twelve months each, are to be awarded. These appointments must be approved by the Board of Governors of the Kingston General Hospital.

A House Surgeoncy and the Chancellor's Scholarship cannot be held by the same student, but a student winning both may elect which he will hold.

13. A prize of $25.00, given by Dr. C. K. Clarke, to the fourth year student passing the best examination on the subject of Mental Diseases.

14. A prize of a standard work, given by Dr. D. E. Mundell, for the best examination in Medical and Surgical Anatomy.

15. Two Clinical Assistants are appointed to the staff of the Rockwood Hospital for the Insane to work during the summer. Applications must be made to Dr. E. Ryan, Supt., by whom the appointments are determined, regard being had to the special qualifications necessary for such work.

ARTICLE V.—TEACHERS' CERTIFICATE.

1. Teachers Certificates which are of sufficiently recent date will be accepted *pro tanto*.

2. Second Form Primary Public School Leaving, or Part I Junior Leaving certificates will be accepted as the equivalent of Part I Matriculation, and Second Class and Part II Junior Leaving certificates for Part II Junior Matriculation, so far as the subjects correspond.

3. Any person presenting a Junior Leaving certificate will be permitted to enter upon a University course in Arts, but he must the first year of his course come up for examination either in the Matriculation work or Junior class work in Latin and must in his first or second year come up for examination either in the Matriculation or Junior class work in one of Greek, French, German.

4. First Class Senior Leaving, or Form IV certificates of Ontario will be accepted for Senior Matriculation so far as they cover the subjects of matriculation.

5. Any person presenting a Senior Leaving certificate of Ontario will be permitted to enter upon a University course, but with his first examination must include either Junior Latin, Greek, French or German.

*6. Candidates who have taken forty per cent. on the Senior Matriculation or Senior Leaving papers in Latin, Greek, French, German, Mathematics, English, Chemistry, Physics, Botany, or Animal Biology, will, on payment of the *pro tanto* fee, not be required to take the University Junior Class in the subject. As no student is allowed to pass more than five classes in a session (see clause 5, article VIII), any one entering under this clause will not be exempt from more than five classes. Students who are allowed four classes may complete their course within three years.

7. Certificates from the different provinces will be accepted for the Junior Leaving and Senior Leaving certificates of Ontario as follows:—

Ontario	Jr. Leaving	Sr. Leaving.
Prince Edward Island	Second Class	First Class.
Nova Scotia	Grade XI	Grade XII.
New Brunswick	Second Class	First Class.
Quebec	Academy Grade III. / University School AA.	
Manitoba	Second Class	First Class.
North-west Territories	Grade VII	Grade VIII.
British Columbia	Intermediate	Senior Academic.

ARTICLE VI.—EXTRA-MURAL STUDENTS.

1. The Senate allows extra-mural students to enter upon the work of the Pass or Honour courses, and to present themselves for examination without attendance upon classes; but candidates for a degree must, before being registered, pass the Matriculation, or an examination accepted by the Senate as equivalent. Students are

*NOTE.—Candidates intending to avail themselves of this clause should write the Deputy Minister of Education, stating when and where they wrote, and have their marks forwarded to the Registrar, who will advise them the classes allowed.

recommended to attend for the latter part of course if at all possible. If this is not feasible they are advised not to attempt more than a pass course.

2. Extra-mural students must register and pay the registration fee of $10 and the tutorial fees, if any, before October 1st. The Registrar will then send them registration cards, and forward cards in the subjects upon which they propose to be examined the following April, to the Professors of the respective classes.

Students wishing to write on additional examinations in September may pay the tutorial fees for these subjects in April and receive tutorial assistance in them through the Summer.*

Attention is called to the fact that if assistance is required in any subject during the session and also during the Summer months the tutorial fee must be paid twice.

3. Extra-mural students must write the essays and exercises prescribed and send them to the Professors or Tutors of the subjects at the dates specified. For information regarding essays and exercises, and the fees to be paid to the Registrar for assistance by tutors appointed by the Professors and acting under their supervision, see the sections concerning extra-mural students in "Subjects of study for B.A. and M.A."

4. List of centres where extra-mural examinations are held may be had on application to the Registrar. If for special reasons a candidate is unable to write at one of these, a new centre may be established on payment of a fee of $5.00.

In all cases the examination fee must be paid to the Registrar in advance by the candidates, and in addition

*It has been found impossible to arrange for tutorial assistance in either Mineralogy or Geology during the vacation months.

a fee of $1.00 for each local half-day examination, and $1.00 for each oral, by students writing away from the University.

5. Students must make application to the Registrar, at least three weeks before the beginning of the University examinations in April and September, for the papers on the particular subjects, as laid down in the Calendar, upon which they propose to write.

6. Oral examinations in final Honour Moderns and Practical examinations in Science must be taken at the University.

ARTICLE VII.—PERCENTAGE REQUIRED.

To take Pass Standing, 40 per cent.
To take Third Class Honours, 50 per cent.
To take Second Class Honours, 66 per cent.
To take First Class Honours, 75 per cent.

ARTICLE VIII.—PASS COURSES LEADING TO DEGREE OF B.A.

1. The course after Matriculation extends over four sessions, but students who are allowed four classes (see clause 6, Art. V) may complete their course in three years.

2. Pass and Honour examinations are held annually in April and Pass examinations in September also.

3. The degree of B.A. will be conferred on candidates who take—

(*a*) Pass standing in the Pass classes and second or third class Honours in the Honour classes of any of the Honour courses, or

(*b*) Pass standing in the Pass classes and at least third class Honours in the Honour classes in either of the following pass courses:

COURSE I.

A.—(1) Junior and Senior Latin.

(2) Junior and Senior Greek. (*a*)
(3) Junior and Senior French.
(4) Junior and Senior German.
} Any one

B.—(1) Junior and Senior English.
(2) Mental & Moral Philosophy.
(3) Mediaeval History or Economics.
(4) Junior Mathematics.

C.—Any two of the Junior Physics, Junior Chemistry, Botany, Animal Biology, Mineralogy, Geology, Junior Hebrew.

D.—Any two of the following :

(1) Any two not taken under B, of Mediaeval History English Constitutional History, Economics, Politics.
(2) Junior and Senior Greek*
(3) Junior aud Senior French.*
(4) Junior and Senior German.*
(5) Senior Hebrew.
(6) Any two of Senior Mathematics, Senior Physics, Senior Chemistry and the classes not taken in C.
(7) Any other two of those in (6).
(8) Preliminary Honours (at least third class) in either Latin, Greek, French, German, History, Philosophy, Political Science, Physics, Botany, Animal Biology, Chemistry, Mineralogy or Geology.
(9) Any other one of those in (8).
(10) Intermediate Honours (at least third class) in English.
(11) Honours in Mathematics as specified under Honour Mathematics.
(12) Final Honours (at least second class) in any class in (8), (10), (11).

*Only for those who have not taken them.

(*a*) Students taking Greek will be required to take only one of the classes in C.

COURSE II.

A.—1. Junior Latin.
2. Junior Greek.
3. Junior French.
4. Junior German.
} Any two.

B.—1. Junior and Senior English.
2. Mental or Moral Philosophy.
3. Junior and Senior Mathematics.
4. Junior Physics.
5. Junior Chemistry.

C.—Any two of: Botany, Animal Biology, Mineralogy, Geology, Senior Chemistry, Senior Physics.

D.—Any four of the following:—
(1) Senior Latin.
(2) Senior Greek.
(3) Senior French.
(4) Senior German.
(5) Junior Hebrew.
(6) Mediaeval and English Constitutional History.
(7) Economics and Politics.
(8) Moral Philosophy.
(9) Any other two of those in C.
(10) Any other two of those in C.
(11) Preliminary Honours (at least third class) in either Latin, Greek, French, German, History, Philosophy, Political Science, Physics, Botany, Animal Biology, Chemistry Mineralogy or Geology.
(12) Any other one in (11).
(13) Any other one in (11).
(14) Any other one in (11).
(15) Intermediate Honours (at least third class) in English.
(16) Honours in Mathematics as specified under Honour Mathematics.
(17) Final Honours (at least second class) in any class in (11), (15) or (16).

COURSE III.

Course for B.A. leading to the Degrees of B.A. and M.D. in six years.

A.—1. Junior Latin,
2. Junior Greek,
3. Junior French,
4. Junior German,
Any two.

B.—1. Junior and Senior English.
2. Mental or Moral Philosophy.
3. Junior Mathematics.

C.—1. Junior Physics and Junior Chemistry.
2. Animal Biology and Medical Botany.
3. Junior and Senior Materia Medica.
4. Junior and Senior Anatomy.
5. Senior Physiology and Histology.
6. Senior Chemistry.

D.—1. Preliminary Honour Chemistry.
2. Preliminary Honour Animal Biology.

Examination on Translation in French or German at end of second, third and fourth years. (See page 74.)

4. No student is allowed to take a Senior class before passing the Junior in the same subject.

5. No student is allowed to attend or pass more than five classes in any one year. A sixth class may be added if it be a subject in which he has already failed.

6. Students should take the Pass classes in English, Classics, French, German and Mathematics in the first two years of their course.

SIX YEARS' COURSES, B.A. AND B.Sc.

Students taking these courses are required to register the first two years in Arts alone and pay the class and registration fees in Arts, to register the second two years in both Arts and Mining, to pay both registration fees and the Mining Class fees and to register the last two years in Mining only, paying registration and class fees. Arts classes are subject to the regulations in the Arts calendar and Mining classes to the regulations in the Mining Calendar.

A.—MINING ENGINEERING.

First Year.

Junior Latin, Junior Greek, Junior French, Junior German, } Any two.

Junior English,
Mathematics I,
Physics I,

Second Year.

Senior English,
Junior Chemistry,

Mathematics II,
Physics II,

Mental Philosophy, Senior Latin, Senior Greek, Senior French, Senior German, } Any one.

Third Year.

Junior Political Economy, Medieval History, } Any one.

Workshop I,
Drawing I,

Senior Chemistry,
Pass Mineralogy,
Surveying I,

FOURTH YEAR.

Geology I,
Preliminary Honour Chemistry,
Preliminary Honour Mineralogy,
Descriptive Geometry,
Surveying I,
General Engineering I,
Drawing II,
Workshop II,

FIFTH YEAR.

Same as third year B.Sc. course.

SIXTH YEAR.

Same as fourth year B.Sc. course.

D.—CHEMICAL ENGINEERING.

FIRST YEAR.

Junior Latin, Junior Greek, Junior French, Junior German, — Any two.
Junior English,
Mathematics I,
Physics I,

SECOND YEAR.

Senior English,
Junior Chemistry,
Physics II,
Mathematics II,
Mental Philosophy, Senior Latin, Senior Greek, Senior French, Senior German, — Any one.

THIRD YEAR.

Junior Political Economy, Medieval History, — Any one.
Workshop I,
Drawing I,
Pass Mineralogy,
Senior Chemistry,
Surveying I,

FOURTH YEAR.

Senior Political Economy,
Moral Philosophy,
Preliminary Honour Latin,
Preliminary Honour French,
Preliminary Honour German,
Intermediate Honour English,
— Any one.
Qualitative Analysis,
Workshop II,
General Engineering I,
Mechanical Drawing, I.

FIFTH YEAR.

Same as third year B.Sc. course.

SIXTH YEAR.

Same as fourth year B.Sc. course.

E.—CIVIL ENGINEERING.

FIRST YEAR.

Junior Latin, Junior Greek, Junior French, Junior German, — Any two.
Junior English,
Mathematics I,
Physics I,

SECOND YEAR.

Senior English,	Mental Philosophy, Senior Latin, Senior Greek, Senior French, Senior German,	Any one.
Junior Chemistry,		
Physics II,		
Mathematics II,		

THIRD YEAR.

Junior Political Economy, Medieval History,	Any one.	Senior Chemistry, Pass Mineralogy, Surveying I.
Workshop I,		
Drawing I,		

FOURTH YEAR.

Geology I,	Senior Political Economy, Moral Philosophy, Preliminary Honour Latin, Preliminary Honour French, Preliminary Honour German, Intermediate Honour English,	Any one.
Drawing II,		
Workshop II,		
Descriptive Geometry,		
	Mapping I,	
	General Engineering I,	
	Surveying II.	

FIFTH YEAR.

Same as third year B.Sc. course.

SIXTH YEAR.

Same as fourth year B.Sc. course.

F.—MECHANICAL ENGINEERING.

FIRST YEAR.

Junior Latin, Junior Greek, Junior French, Junior German,	Any two.	Junior English, Mathematics I, Physics I.

SECOND YEAR.

Mental Philosophy, Senior Latin, Senior Greek, Senior French, Senior German,	Any one.	Mathematics II, Senior English, Junior Chemistry.
		Physics II.

THIRD YEAR.

Junior Political Economy. } Any
Medieval History, } one.

Senior Chemistry,
Pass Mineralogy,
Surveying I.

Workshop I,
Drawing I,

FOURTH YEAR.

Workshop II,

Drawing II, III, and IV,
Descriptive Geometry,

Senior Political Economy,
Moral Philosophy,
Preliminary Honour Latin,
Preliminary Honour French,
Preliminary Honour German,
Intermediate Honour English,
} Any one.

General Engineering I.

FIFTH YEAR.

Same as third year B.Sc. course.

SIXTH YEAR.

Same as fourth year B.Sc. course.

G.—ELECTRICAL ENGINEERING.

FIRST YEAR.

Junior Latin,
Junior Greek,
Junior French,
Junior German,
} Any two.

Junior English,
Mathematics I,
Physics I.

SECOND YEAR.

Senior English,
Junior Chemistry,

Physics II, and III,
Mathematics II.

Mental Philosophy,
Senior Latin,
Senior Greek,
Senior French,
Senior German.
} Any one.

THIRD YEAR.

Junior Political Economy, } Any
Medieval History, } One.

Senior Chemistry,
Pass Mineralogy,
Surveying I.

Workshop I,
Drawing I.

FOURTH YEAR.

Drawing II, III,
Descriptive Geometry,

Senior Political Economy,
Moral Philosophy,
Preliminary Honour Latin,
Preliminary Honour French,
Preliminary Hon'r German,
Intermediate Hon'r English,
} Any One

Workshop II,
General Engineering I,

FIFTH YEAR.

Same as third year B.Sc. course.

SIXTH YEAR.

Same as fourth year B.Sc. course.

ARTICLE IX.—HONOUR COURSES.

1. *Students preparing for the position of High School Master are recommended to take one of the courses that qualify for Specialists' Certificates under the Departmental Regulations.*

2. The degree of M.A. will be conferred on students who take Pass standing in the Pass classes, and first class Honours in the Honour classes, in any one of the following courses.

3. The degree of B.A. will be conferred on candidates who take Pass standing in the Pass classes, and second or third class honours in the Honour classes of any one of the following courses:

4.—COURSE A.—LITERATURE AND PHILOSOPHY.

PASS CLASSES.

A.—1. Junior and Senior Latin.
2. Junior and Senior Greek. *(a)*
3. Junior and Senior French.
4. Junior and Senior German.

} Any one.

B.—1. Junior English.
2. Senior English.
3. Mental or Moral Philosophy.

} Three

C.—1. Junior Mathematics.
2. Animal Biology.
3. Botany.

} One.

D.—1. Junior and Senior Greek*
2. Junior aud Senior French.*
3. Junior and Senior German.*
4. Moral Philosophy.
5. Economics and Politics.
6. Mediaeval and English Constitutional History.

} Any two.

*Only for those who have not taken them.

HONOUR CLASSES.

1. Preliminary and Final Honour Latin.
2. Preliminary and Final Honour Greek.
3. Preliminary and Final Honour French.
4. Preliminary and Final Honour German.
5. Preliminary, Intermediate and Final Honour English.
6. Preliminary and Final Honour History.
7. Preliminary and Final Honour Political Science.
8. Preliminary and Final Honour Mental Philosophy.
9. Preliminary and Final Honour Moral Philosophy.

} Any Two

(a) Students taking Greek will not be required to take the class in C.

5.—COURSE B.—MATHEMATICS AND PHYSICS.

PASS CLASSES.

Junior English.
Senior English.
Junior Mathematics.
Senior Mathematics.
Junior Physics.
Senior Physics.
Mental or Moral Philosophy.

} Seven.

Mediaeval History.
Economics.
Mental and Moral Philosbphy.
Junior Chemistry.

} Any one.

Junior Latin.
Senior Latin.
Junior Greek.
Senior Greek.
Junior French.
Senior French.
Junior German.
Senior German.

} Any two.

One of the following Honour Groups:

1. Mathematics—Comprising Honour Mathematics, Preliminary Honour Physics and Practical Astronomy.

2. Physics—Comprising Preliminary and Final Honour Physics, subjects 1, 2, 3, 4, 5, 6, 7, 8, of Honour Mathematics, and Descriptive Astronomy.

6.—Course C.—Science.

PASS CLASSES.

Junior English. Senior English. Junior Mathematics. Senior Mathematics. Mental Philosophy. Junior Physics. Senior Physics. Junior Chemistry. Senior Chemistry.	Nine.
Junior Latin. Senior Latin. Junior Greek. Senior Greek. Junior French. Senior Freuch. Junior German. Senior German. Moral Philosophy.	Any two.

One of the following Honour Groups :

1. Preliminary and Final Honour Chemistry and Preliminary and Final Honour Experimental Physics.

2. Preliminary and Final Honour Chemistry, with either Preliminary and Final Honour Botany or Preliminary and Final Honour Animal Biology.

3. Preliminary and Final Honour Chemistry, Preliminary and Final Honour Geology, Preliminary and Final Honour Mineralogy. —Any two.

Specialists' Courses.

7. By agreement with the Education Department of Ontario, candidates taking an M.A. degree or B.A. with second class honours (sixty-six %) in any of the following courses and attending not less than two full sessions will receive the nonprofessional qualification of Specialist.

8. The degree of M.A. will be conferred on students who take Pass standing in the Pass classes and first class Honours in the Honour classes in any one of the following courses.

9. The degree of B.A. will be conferred on candidates who take Pass standing in the Pass classes and second or third class Honours in the Honour classes of any one of the following courses:

COURSE I.—CLASSICS.

Pass Classes.

Junior and Senior Latin.
Junior and Senior Greek.
Junior and Senior English.
Mental and Moral Philosophy.
Junior Mathematics.
English Constitutional History.
Junior Physics.
Junior Chemistry.
Pass Animal Biology.
} Any one.

Honour Classes.

Honour Latin, Preliminary and Final.
Honour Greek, Preliminary and Final.
Preliminary Honour Latin and Greek include the Roman and Grecian History.

COURSE II.—ENGLISH AND HISTORY (CLASSICS OPTION.)

Pass Classes.

Junior and Senior Latin.
Junior and Senior Greek.
Junior and Senior English.
Mental and Moral Philosophy.
Junior Mathematics.
Mediaeval and English Constitutional History.
Junior Physics.
Junior Chemistry.
Pass Animal Biology.
} Any one.

Honour Classes.

Honour English, Preliminary, Intermediate and Final.
Honour History, Preliminary.
Honour Greek, Preliminary.
Honour Latin, Preliminary.

COURSE III.—ENGLISH AND HISTORY (MODERNS OPTION.)

Pass Classes.

Junior and Senior Latin.
Junior and Senior French.
Junior and Senior German.

Junior and Senior English.
Junior Mathematics.
Mediaeval and English Constitutional History.
Mental or Moral Philosophy.
Junior Physics.
Junior Chemistry. } Any one.
Pass Animal Biology.

Honour Classes.

English, Preliminary, Intermediate and Final Honours.
History, Preliminary Honours.
French, Preliminary Honours.
German, Preliminary Honours.

COURSE IV.—FRENCH AND GERMAN.

Pass Classes.

Junior and Senior Latin.
Junior and Senior French.
Junior and Senior German.
Junior and Senior English.
Junior Mathematics.
Mediaeval and English Constitutional History.
Junior Physics.
Junior Chemistry. } Any one.
Pass Animal Biology.

Honour Classes.

English, Intermediate Honours.
French, Preliminary and Final Honours.
German, Preliminary and Final Honours.

COURSE V.—MODERNS, (ENGLISH, FRENCH AND GERMAN), AND HISTORY.

Pass Classes.

Junior and Senior Latin.
Junior and Senior German.
Junior and Senior French.
Junior and Senior English.
Junior Mathematics.
Mental or Moral Philosophy.
Mediaeval and English Constitutional History (Honour standing required.)
Junior Physics.
Junior Chemistry. } Any one.
Pass Animal Biology.

Honour Classes.

Honour English, Preliminary, Intermediate and Final A.
Honour German, Preliminary and Intermediate.
Honour French, Preliminary and Intermediate.

COURSE VI.—MATHEMATICS.

Pass Classes.

Junior Latin.
Junior French, German or Greek.
Junior and Senior English.
Mental or Moral Philosophy.
Junior and Senior Physics.
Junior and Senior Mathematics.

Honour Classes.

Preliminary Honour Physics, with Practical Astronomy.
Honour Mathematics.

COURSE VII.—MATHEMATICS AND PHYSICS.

Pass Classes.

Junior Latin.
Junior French, German or Greek.
Junior and Senior English.
Mental or Moral Philosophy.
Junior and Senior Physics.
Junior and Senior Mathematics.

Honour Classes.

Preliminary Honour Physics, with Descriptive Astronomy.
Final Honour Physics.
Honour Mathematics, No. 1, 2, 3, 4, 5, 6, 7, 8.

COURSE VIII.—SCIENCE.

Pass Classes.

Junior Latin.
Junior French, German or Greek.
Junior and Senior English.
Junior and Senior Mathematics.
Junior and Senior Physics.
Junior and Senior Chemistry.
Botany.
Animal Biology.
Mineralogy.
Geology.

Honour Classes.

Preliminary Honour Chemistry.
Preliminary Honour Botany.
Preliminary Honour Animal Biology.

Together with any one of the following groups:

(*a*). Final Honour Botany and Final Honour Animal Biology.
(*b*). Experimental Honour Physics and Final Honour Chemistry.

(*c*). Final Honour Chemistry and Preliminary and Final Honour Mineralogy.

(*d*). Preliminary Honour Mineralogy and Preliminary and Final Honour Geology.

16. Students intending to teach in Ontario are referred to the calendar of the Ontario Normal College for information regarding Professional Examinations.

ARTICLE X. SUBJECTS OF STUDY FOR B.A. AND M.A.

LATIN.

PROFESSORS.—Walter J. Pike, M.A., B.A., (Cantab.); A. B. Nicholson, B.A.

TUTORS.—T. S. Duncan, M.A., R. S. Brydon, M.A.

JUNIOR CLASS

Translation from the books specified, with questions on the Grammar and subject matter. Allen's Latin Grammar (Clarendon Press) is used in class.

Latin Prose Composition based on the books read, and Fletcher & Henderson's Latin Prose Composition, sections 1-40.

A knowledge of Roman Antiquities from Wilkins's *Primer*.

Translation of simple Latin at sight.

Cicero, *De Senectute* (Reid).

Livy I (Stephenson), (Selections).

Horace, *Odes I, II,* (Gow, Page).

Vergil, *Aeneid VI,* (Page, Sidgwick).

Extra-mural students are charged a fee of $3 for the examination of the exercises to be done during the session.

SENIOR CLASS.

Translation from the books specified with questions on grammar and subject matter. These books illustrate Roman Ethical and Historical Writing, and Epic and Dramatic Poetry.

Translation at sight and Latin Composition based on the books read and Fletcher & Henderson's Latin Prose Composition, sections 41—64.

Roman Literature, the Augustan period, (Mackail).

Cicero, *De Officiis III* (Holden).

Livy V., (Whibley).

Terence, *Adelphi* (Sloman: Clarendon Press).

Vergil, *Aeneid X.,* (Sidgwick, Owen).

Useful books of reference and the best editions of the prescribed texts are retained in the Class Library during the session for the use of students. Extra-mural students should consult the Professor before ordering the text books and do so as early as possible.

HONOURS.

Candidates for Preliminary and Final Honours in Latin should note that special stress is laid on Composition and Sight Translation. Passages will also be set from the books specified below, good editions of which are recommended in each case, while the best plain text is that of the Bibliotheca Oxoniensis, and where this is not yet available, the Teubner. The Roman History required from candidates for Specialist certificates is

included in the Preliminary or Final Honour examination, and must be taken. The course comprises the main facts of the History and Literature of Rome to the death of Marcus Aurelius. Regular lectures on this and Latin Epigraphy, Archaeology, Syntax, the History of the Language, Literary and Textual Criticism and Roman Philosophy are given during the session illustrating the course of reading prescribed and preparatory to the Ph.D. course.

The following are excellent books for use, reference and private reading:—Lewis & Short's Latin-English Dictionary. Harper's New Classical Dictionary by Peck, Mackail's Latin Literature, Allen & Greenough's New Latin Grammar. Histories of Rome by Botsford, How and Leigh, Bury, Johnston's Private Life of the Romans, Greenidge's Roman Public Life, Tyrrell's Latin Poetry, Forsyth's Life of Cicero, Inge's Society in Rome under the Caesars. All such books and the best editions of the prescribed texts will be found in the consulting and loan departments of the University Library.

PRELIMINARY.

(This class must be taken at least one year before the final examination).

Cicero, *De Natura Deorum II* (Stickney), *Cicero in his Letters,* 1-40 (Macmillan).
Juvenal, *Selected Satires.*
Tacitus, *Annals I-II* (Furneaux's small edition, Allen), *Histories I* (Davies).
Vergil, *Georgic I, Aeneid,* Books I, II, IV, V, VI, X, XII.
Horace, *Odes and Epistles I,* (Page, Wilkins & Palmer, in one vol., Macmillan).
Crowell's Selections from the Latin Poets.

FINAL.

Cicero, *De Natura Deorum II* (Stickney), *De Oratore I,* (Wilkins), *Philippic II,* (Peskett), Cicero in his Letters (Macmillan).
Livy I, (Seeley).
Tacitus, *Annals I-III, Germania and Agricola* (Church & Brodribb), *Histories I* (Davies).
Pliny, *Selected Letters,* (Merrill).
Quintilian X (Peterson, smaller edition).
Vergil and Horace complete.
Juvenal, *Satires,* (Duff).
Plautus, *Trinummus,* (Gray).
Crowell's Selections from the Latin Poets.
Allen's Remnants of Early Latin.
Minucius Rufus, *Octavius,* (Holden).

Extra-mural students of the Senior and Honour Classes are charged a fee of $5 for the examination of the exercises to be

done during the session. Professor Pike should be freely consulted on any question connected with the course.

GREEK.

PROFESSOR.—T. Callander, M.A. (Oxon.)
ASSISTANT.—Prof. A. B. Nicholson, B.A.
TUTOR.—J. P. Quigley, M.A.

JUNIOR CLASS.

Greek Grammar, (Goodwin).
Greek Composition. (Text-book: Fletcher & Nicholson's *Elementary Greek Prose Composition.*)
Translation from authors not specified.
Plato Selections (Sidgwick).
Homer, *Odyssey, XI, XII.* (Merry.)
Lucian, *Vera Historia II.* (Jerram.)

Extra-mural students are charged a fee of $3 for the examination of the exercises which they must do during the session.

SENIOR YEAR.

Thucydides VII (Macmillan).
Homer, *Odyssey VII-X* (Merry).
St. Paul, *Philippians.*
Greek Grammar and Composition.
Translation from authors not specified.

HONOURS.

Candidates for Preliminary and Final Honours in Greek should note that special stress is laid on Composition and Unseen Translation. Passages will also be set for translation from the books specified below. The Greek History required from candidates for Special Certificates is included in the Preliminary Honour Examinations and must also be taken.

Books recommended:

Murray, *Greek Literature.*
Goodwin, *Greek Grammar.*
Grote, *History of Greece.*
Bury, *History of Greece.*
Hogarth, *Philip and Alexander.*
Schuchhardt, *Schliemann's Excavations.*
Jebb, *Homer.*
Geddes, *Problem of the Homeric Poems.*

Instead of the editions mentioned below students may find it convenient to use the Teubner series.

Preliminary.

(The examination in this class must be taken at least one year before the final examination).

Thucydides II. (Macmillan).
Plutarch, *Themistocles, Pericles.*
Homer, *Odyssey I-XII* (Merry).
Euripides, *Bacchae* (Tyrrell, Macmillan).
Sophocles, *Oedipus Coloneus* (Jebb).
Aristophanes, *Birds* (Merry).
Greek Grammar and Composition.

Final.

Herodotus VIII, IX.
Thucydides I, II.
Demosthenes, *De Corona* (Goodwin) and *Olynthiacs* (Glover).
Plato, *Republic II-IV*, (Adam).
Aristotle, *Ethics I, II, X.*
Plutarch, *Themistocles, Pericles.*
Homer, *Odyssey.*
Aeschylus, *Agamemnon* (Sidgwick).
Prometheus (Sikes & Wilson).
Sophocles, *Electra, Antigone* (Jebb).
Euripides, *Bacchae* (Macmillan).
Aristophanes, *Knights* (Merry), *Birds* (Merry).
Pindar, *Olympians* (Gildersleeve).
Theocritus, *Selections.*

Extra-mural students of Senior and Honour Classes are charged a fee of $5 for the examination of the exercises which they must do during the session.

COMPARATIVE PHILOLOGY AND SANSCRIT.

Professor—A. B. Nicholson, B.A.

To meet the needs of those who desire to have some knowledge of linguistic processes three courses of lectures are arranged, the first, for those who have a knowledge of Latin and Greek; the second, for those who know Latin but not Greek, and the third for those who wish to extend their knowledge of Comparative Philology by studying Sanscrit.

Course I.—Lectures on Greek and Latin Philology (one hour per week).

For reference: Henry's Compar. Grammar of Greek and Latin.
Brugmann's Compar. Grammar.

This course is strongly recommended to all Honour candidates in Greek and Latin.

COURSE II.—Phonetics and History of the Latin Language (one hour per week).

Text-books: Lindsay's Short Historical Latin Grammar.
Allen's Remnants of early Latin.

This course is intended for Honour students in Latin who have no knowledge of Greek.

COURSE III.—Elements of the Sanscrit Language (one hour per week).

Text books: Perry's Sanscrit Primer.
Whitney's Sanscrit Grammar.
Lanman's Sanscrit Grammar.

For consultation: A. A. MacDonell's Sanscrit Literature.
Kaegi's Rig-Veda translated by R. Arrowsmith.

GERMAN LANGUAGE AND LITERATURE.

PROFESSOR.—J. Macgillivray, Ph.D., (Leipsic).

ASST. PROFESSOR—E. W. Patchett, B.A.

TUTOR.—A. W. Baird.

JUNIOR CLASS.

The following works will be translated and studied:
Möbius, Deutsche Götter-und Heldensagen I.
Baumbach, Neue Märchen (Selections).
Paul Heyse, Vetter Gabriel.
Benedix, Eigensinn (Heath & Co.)
Freytag, Die Journalisten (Ginn & Co.)
Fraas, Geologie, 1-50 (Sammlung Göschen.)
Translation from authors not specified.
Grammar and Dictation.

Oral and Written Composition and Translation into German, based on the above works.

SENIOR CLASS.

The following works will be read:
Möbius Deutsche Götter-und Heldensagen I, II, III.
Heyse, Vetter Gabriel.
Theodor Storm, Der Schimmelreiter (Ginn & Co.)
Benedix, Die Hochzeitsreise.
Chamisso, Balladen (Macmillan & Co.)
Heine, Balladen (Macmillan & Co.)
Goethe, Hermann und Dorothea (Ginn & Co.)
Fraas, Geologie.
Fuchs, Volkswirtschaftslehre (Sammlung Göschen.)
Translation from authors not specified.
Writing German from Dictation.

Oral and Written Composition and Translation into German, based on the above works.

Honours.

The examination in Preliminary Honours must be passed at least one year before that in intermediate, or in intermediate and final. Preliminary Honours will count for a pass class. Class exercises in Honour work are conducted in German. Short courses of lectures in German are also delivered.

Preliminary.

Baumbach, Neue, Marchen.
Heyse, Novellen, 8 ter Band V. [Herz] (Selections).
Frenssen, Jörn Uhl I-X.
Schiller, Wilhelm Tell.
Goethe, Faust I., Balladen (Macmillan's Balladenbuch.)
Lessing, Minna von Barnhelm.
Koch, Geschichte der deutschen Litteratur (Sammlung Göschen.)
Lyon, Deutsche Grammatik und Kurze Geschichte der deutschen Sprache (Sammlung Göschen).
Writing German from Dictation.

Oral and Written Composition and Translation into German, based on the above works.

Intermediate.

Baumbach, Neue Märchen.
Heyse, Novellen (8 ter B.V.)
Frenssen, Jörn Uhl.
Schiller, Die Jungfrau von Orleans, Wilhelm Tell, Balladen (Balladenbuch).
Goethe, Faust I, Iphigenie, Balladen (Balladenbuch.)
Lessing, Emilia Galotti, Minna von Barnhelm.
Scheffel, Ekkehard.
Felix Dahn, Gelimer.
Elsenhans, Psychologie and Logik zur Einführung in die Philosophie (Sammlung Göschen).
Braune, Gothische Grammatik und Ulfilas—Matthäus 5.
Braune, Althochdeutches Lesebuch—Muspili.
Clother, Das Nibelungenlied in Auswahl (Sammlung Göschen).
Lyon, Deutsche Grammatik und Kurze Geschichte der Deutschen Sprache.
Koch, Geschichte der Deutschen Literatur.

Oral and Written Composition and Translation into German, based on the above works.

Final.

Baumbach, Neue Mährchen, Erzählungen und Mährchen.
Heyse, Novellen (8 ter B.V.)
Frenssen, Jörn Uhl

Felix Dahn, Gelimer.
Freytag, Soll and Haben.
Scheffel, Ekkehard, Der Trompeter von Säkkingen.
Goethe, Faust, Egmont, Torquato Tasso, Iphigenie, Balladen.
Schiller, Don Carlos, Wallenstein, Maria Stuart, Die Jungfrau von Orleans, Wilhelm Tell.
Lessing, Minna von Barnhelm, Emilia Galotti, Nathan der Weise.
Behagel, Die Deutsche Sprache.
Braune, Gothische Grammatik und Ulfilas—Matthäus 5, 6.
Braune, Althochdeutsches Lesebuch — Musspili, Das Ludwigslied, Otfried's Evangelienbuch.
Clother, Das Nibelungenlied in Auswahl.
Koch, Geschichte der Deutschen Litteratur.
Kluge, Geschichte der Deutschen Litteratur.
Oral and Written Composition and Translation into German based on the above works.

ROMANCE LANGUAGES AND LITERATURE.

Professor.—P. G. C. Campbell, M.A., (Oxon.)
Assistant Professor—E. W. Patchett, B.A. (Cambridge).
Tutor.—Miss E. C. Asselstine, M.A.

French.

Note for all classes.—No good work in French can be done without a large dictionary. Small pocket editions are worse than useless.

Junior Class.

Works to be studied:—

The Subjects for Senior Matriculation, viz:—

Lamennais, Paroles d'un croyant, Chaps. VII and XVII; *Perrault,* le Maître Chat ou le Chat Botté; *Dumas,* Un nez gelé, and la Pine de Jean Bart; *Alphonse Daudet,* la Dernière Classe, and le Chèvre de M. Seguin; *Legouvé,* la Patte de Dindon; *Pouvillon,* Hortibus; *Loti,* Chagrin d'un vieux forçat; *Moliere,* l'Avare, Acte, III, sc. 5 (Est-ce à votre cocher....sous la mienne); *Victor Hugo,* Waterloo, Chap. IX; *Rouget De L'isle,* la Marseillaise; *Arnault,* la Feuille; *Chateaubriand,* l'Exilé; *Theophile Gautier,* la Chimère; *Victor Hugo,* Extase; *Lamartine,* l'Automne; *De Musset,* Tristesse; *Sully Prudhomme,* le Vase brisé; *La Fontaine,* le Chêne et le Roseau.

N.B.—These pieces are collected at the end of "The High School French Grammar."

Labiche—Le Voyage de M. Perrichon (Heath & Co.)
Labiche—La Grammaire.
Anon—La Main Malheureuse (Heath & Co.)

G. Sand—La Mare au Diable (Holt & Co.)
Contes et Nouvelles (Ed. J. Lazarre-Hachette & Co.)
Grammar treated by the Inductive Method.
Writing French from Dictation.
Translation into French and Essays based on the works read.

NOTE.—Extra-mural students should procure Grandgents "French Composition" (Heath & Co.)

NOTE.—Elementary classes are held twice a week for those who have done but little French, fee $3.

SENIOR CLASS.

Cameron—Tales of France (American Book Co.)
Balzac—Cinq Scènes de la Comédie Humaine (Heath & Co.)
Victor Hugo—La Chute (American Book Co.)
Mérimée—Colomba.
Foncin—Le Pays de France (Armand Colin.)
Augier—Le Gendre de M. Poirier.
Rosey—French Literature, (Blackie & Sons.)
A thorough study of Grammar and Syntax.
Unseen Translation.
Translation into French Prose. Text book, "French Prose Composition for Middle Forms"—Duhamel & Minssen (Rivingtons.)
Writing French from Dictation.
Essays—Nov. 30th, A Study of French Patriotism:
Feb. 18th, The part now being played by the British Empire in advance of civilization [to be written in French].

N.B.—Extra-mural students in order to be admitted to examination must write both the prescribed essays and at least 50 per cent. of the Proses set.

N.B.—For those who have taken the Junior French in the combined B.A. and M.D. course (page 52) the work in the next three years for examination will be:—

II YEAR—Le Gendre de M. Poirier.
Herdler's "Scientific French Reader," pp. 1-86 (Ginn & Co.)
Unseen Translation of a scientific character.

III YEAR—Herdler's "Scientific French Reader."
Unseen Translation of a scientific character.

IV YEAR—"Lectures Scientifiques" (Rivingtons.)
Unseen Translation of a scientific character.

HONOURS.

No student can pass an Honour class unless he has passed in the paper on the History of the French Language and General Phonetics.

Preliminary.

(The examination in this class must be taken at least one year before the intermediate or final examination. It may also be taken as a pass class.)

TEXTS:—

*Montaigne—Essais. Book I, chapters xviii-xxvii.
Corneille—Horace.
Racine—Andromaque.
*Descartes, Discours de la Méthode (Parts I—IV, VI).
De Musset—Trois Comédies (Heath & Co.) viz:—
Fantasio. On ne badine pas avec l'amour. Il faut qu'une porte soit ouverte ou fermée.
Victor Hugo—Ruy Blas, *Hernani.
*Gautier—Jettatura (Heath & Co.)
*Balzac—Eugénie Grandet (Holt & Co.)
Unseen Translation.
Writing from Dictation.

Translation into French Prose. Text book: Duhamel—"Advanced French Prose Composition" (Rivingtons.)

The History of French Literature with special reference to the 17th, 18th and 19th centuries.

Text book: Petit de Julleville—Leçons de Littérature Française.

Consult: The various studies of Sainte Beuve.
Brunétiere—Manuel de l'Histoire de la Littérature Française.

The theory of Phonetic change and History of the French Language—a course of 20 lectures.

Composition in French—Subjects for 1906-1907:—

Nov. 17th, A critical study of "Horace."

Dec. 13th, The main characteristics of Cent. xviii and their explanation.

Feb. 10th, The part now being played by the British Empire in the advance of Humanity.

Intermediate.

(For those taking Specialist Course V.)

Translation from Unseen authors.
Translation into French Prose.
Composition in French.
Texts set (Unabridged Editions) for translation and study:—
Cent. XVI.—*Montaigne—Essais. Book I, chapters xviii-xxvii.
Molière—Le Misanthrope.
Racine—Iphigénie, Andromaque.

*To be specially studied in class.

*Boileau—L'Art Poétique, Canto I.
*Descartes—Discours de la Méthode (Parts I-IV, VI.)

Cent. XVIII.—Rousseau—Contrat Social.
Beaumarchais—Le Barbier de Séville.
Chateaubriand—Atala, René.

Cent. XIX.—Victor Hugo—Les Orientales, I-X and XXVIII.
*Hernani.
*De Tocqueville—L'Ancien Régime.
*Balzac—Eugénie Grandet.
*Gautier—Jettatura.
De Musset—Fantasio. On ne badine pas avec l'amour. Il faut qu'une porte soit ouverte ou fermée.

The Literary History of France, with special reference to the political and social history.

The Principles, in outline, of Literary Criticism applied to French Literature.

Text-book:—

Aristotle's Poetics (edited by Butcher.)—The Essays.

Final.

In addition to the work set for Intermediate Honours the following work is prescribed:

TEXTS—Molière—Les Précieuses Ridicules, L'Avare.
Voltaire—Mérope.
V. Hugo—Les Misérables (Fantine). Cromwell [Preface].
Pierre Loti—Pêcheur d' Islande.
Daudet—Tartarin sur les Alpes.

PHILOLOGY—1. The General Theory of Phonetic Change.
2. The History and Development of the French Language.
Introductory Text-book—Spiers—"Short Historical French Grammar" (Simpkin Marshall.)
3. The Grammar of Old French
4. The Study of Old French Texts.

*Text-book—Clédat—Chrestomathie du Moyen-Age, [St. Thomas de Cantorbéry, Chanson de Roland, Berthe aux grands pieds, Le Miracle de Berthe].

Consult for reference:—

Nyrop—"Grammaire Historique de la Langue Française."
Gröber—"Grundriss von Romanischer Philologie."
Meyer Lübke—"Grammaire des Langues Romanes."
Clédat—"Nouvelle Grammaire Historique."

ESSAYS for 1906-7 for Intermediate and Final Honour Students:

Nov. 3rd—The Dramatic Art of V. Hugo.
Dec. 1st—Dramatic Irony and its place in the French drama.
Jan. 28th—"Bien juger, c' est bien faire" (Descartes.)
Mar. 1st—The part now being played by the British Empire in the World.

These essays to be written in French.

*To be specially studied in class.

Italian.

(Italian is not obligatory for any course save for Ph.D. work.)

Voluntary classes are held. No fee. Tickets to be obtained from the Registrar.

First Year—Grammar—(Grandgent.)
Unseen Translation.
De Amicis—Il più bel Giorno della Vita.
Dante—Inferno I-II.

Second Year—Translation into Italian (Grandgent's Italian Composition.)
History of Italian Literature (Snell's Primer of Italian Literature.)
Dante—Inferno I-X.
Tasso—La Ierusalemme Liberata I-II.
Del Testa—Le Conscienze Elastiche.
Carcano—La Nunziata.
Unseen Translation.

Spanish.

Valera—El Pájaro Verde (Ginn & Co.)
Moratin—El si de las Ninas (Ginn & Co.)
Alarcón—El Capitán Veneno (Heath & Co.)
Calderon—La Vida es Sueno (Heath & Co.)
Cervantes—Don Quixote (Heath & Co.)
Edgren's Grammar (Heath & Co.)
Ford's Composition (Heath & Co.)
Writing Spanish from Dictation.
Outline of the History of the Literature.

Note.—Extra-mural students of Modern Languages should obtain competent teachers for oral instructions *as no candidate will be accepted who fails in the oral examination.* Pass candidates may take the oral examination at outside centres, provided an examiner approved by the Senate be obtained; but Intermediate and Final Honour candidates must pass their oral examination at the University.

A tutorial fee of $3 is required for each Pass Class and $5 for each Honour Class.

ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR—James Cappon, M.A.

ASSISTANT-PROFESSOR—John Marshall, M.A.

TUTORS—S. M. Polson, M.A.; A. M. Bothwell, M.A.; D. A. Macgregor, B.A.

JUNIOR CLASS.

1. Practical course in Rhetoric and Composition.
2. Analysis of style in connection with the study of passages from Bacon, Addison, Johnson, Washington, Irving, Macaulay, Ruskin, Carlyle, Burroughs, The Best English Essays, The World's Greatest Short tories (McClurg & Co., Chicago.)

   Bacon's Esays (Of Truth, Of Studies). Maynard, Merril & Co., New York.)

   Irving's Sketch-Book (Visit to Shakespeare's Birthplace, Rip Van Winkle). (Maynard, Merrill & Co.)

   Macaulay's Essay on Boswell's Johnson. (Maynard, Merrill & Co.)

   John Burroughs, Bees (Baldwin's Specimen's of Prose Description. Henry Holt & Co., New York.)

   Carlyle, The Storming of the Bastille (Baldwin's Specimens.)
3. A detailed study in class of the following:

   Chaucer, Prologue to Canterbury Tales. (The descriptions of the Knight, Squire, Prioress, Monk, Friar, Student, Merchant, Franklin, Doctor, Shipman, Parson.)

   Shakespeare, Julius Caesar, Merchant of Venice.

   Longfellow, Prelude, Nuremberg, The Belfry of Bruges, The Skeleton in Armour, Amalfi, The Village Blacksmith, The Day is Done, The Secret of the Sea.

   Tennyson, The Palace of Art, The Lady of Shalott, "Love Thou Thy Land," The Lord of Burleigh.

SENIOR CLASS.

I.

(*a*) Shakespeare, Hamlet, The Tempest.
Milton, Paradise Lost, Book I.

(*b*) Dryden, Epistle to Mr. Congreve, the Descriptions of Achitophel and Zimri in *Absolom and Achitophel,* Alexander's Feast.

Pope, Epistle to Arbuthnot (Satires.)

Johnson, Vanity of Human Wishes.

Gray, Elegy, Ode on Eton College.

Collins, Ode to Liberty, Ode to the Passions.

Goldsmith, The Deserted Village.

Burns, The Cotter's Saturday Night, A Bard's Epitaph To a Mouse, Whistle and I'll Come to ye my lad, Farewell to Nancy; Tam Glen.

(Read Gosse, Eighteenth Century Literature, chaps. I, III, IV, and IX, X, XI.

(*c*) Wordsworth, Ruth, Song at the Feast of Brougham Castle Lines written near Tintern Abbey.

Keats, Ode on a Grecian Urn, On First Looking into Chapman's Homer.

Browning, A Grammarian's Funeral, Abt Vogler, A Toccata of Galuppi's.

(*d*) Edward Gibbon, Description of Byzantium (Baldwin's Specimens of Prose Description. Henry Holt & Co.)

Macaulay, Boswell's Life of Johnson.

Carlyle, Essay on Burns.

Charles Lamb, The South-Sea House (Baldwin's Specimens of Prose Description.)

Ruskin, Geneva (Baldwin's Specimens of Prose Description.)

Adam Smith, The Division of Labour (Lamont's Specimens of Exposition. Henry Holt & Co.)

Matthew Arnold, Wordsworth (Lamont's Specimens of Exposition.)

II.

Development of Poetry and Poetic Forms.

(*a*) Development of Poetry from Chaucer to Shakespeare.

(*b*) Characteristics of Epic, Lyric and Dramatic Poetry.

(*c*) The Development of the Rhymed Couplet.

(*d*) The Development of the Ballad Form.

(*e*) The Development of Blank Verse.

(*f*) History of the Sonnet.

Extra-mural students may consult Corson's Primer of English Verse and Gummere's Handbook of Poetics.)

III.

(*a*) Lectures on the History of the English Language.

(*b*) Specimens of Early English, Robert of Gloucester, (Morris & Skeat, Part II.)

(*c*) For extra-mural students: O. F. Emerson's History of the English Language (Macmillan & Co.), chapters III, IV, V, VII, IX, X, XIII, XIV, XV, XVII, XVIII, XIX, XX, XXI, XXII.

HONOURS.

Preliminary.

1. Anglo-Saxon:—(Sweet's Anglo-Saxon Reader.)
Alfred's Preface to the *Cura Pastoralis.*

Alfred's Translation of Boethius.
Alfred's Translation of Beda (Account of the Poet Caedmon.)
Aelfric's Assumption of St. John.
Aelfric's Life of King Oswald.
Charters (Eadgifu).
Extract from the Beowulf, lines 1-150.
The Battle of Maldon.

2. Skeat, Principles of English Etymology (Chaps. VII, X, XI, XVIII, XIX, XXI).

For extra-mural students: O. F. Emerson's History of the English Language (Macmillan & Co.)

3. Ten Brink, Early English Literature, Book I.
Morris & Skeat, Specimens of Early English, Extracts I. and VII.

Intermediate.

Cowper, Table Talk, Progress of Error, Task, Book I.

Wordsworth, The Prelude, Books, I, II, III, IV; the following poems from "Lyrical Ballads": The Thorn, Simon Lee, The Last of the Flock, The Mad Mother, The Idiot Boy, Expostulation and Reply, The Tables Turned, The Complaint of a Forsaken Indian Woman, Lines Written near Tintern Abbey, Hart Leap Well, There Was a Boy, The Brothers, Lucy Gray, Ruth, Lines Written upon a Tablet, The Two April Mornings, Nutting, Three Years She Grew, The Old Cumberland Beggar, Michael; the poems published as "Memorials of a Tour in Scotland (1803)"; the poems "dedicated to National Independence and Liberty," Part I, Yew Trees, She was a Phantom of Delight, I Wandered Lonely as a Cloud, Song at the Feast of Brougham Castle, Laodamia, Dion, Peter Bell, Fidelity, Ode to Duty, Character of the Happy Warrior, Ode on Immortality, Excursion Book I.

Keats, Ode on a Grecian Urn, Ode to a Nightingale, Isabella, Lamia, Byron, Bride of Abydos, Childe Harold, Canto III. Tennyson, Ulysses, Morte d'Arthur.

Clough, The Bothie, Through a Glass Darkly, Ah! Yet Consider it Again, Qua Cursum Ventus.

Browning, (*a*) The Grammarian's Funeral, Andrea Del Sarto, Fra Lippo Lippi, Pictor Ignotus, The Bishop Orders His Tomb, Bishop Blougram, How it strikes a Contemporary, Epistle of Karshish, Cleon; (*b*) Abt Vogler, Rabbi Ben Ezra, A Toccata of Galuppi's, The Laboratory, The Glove, Dis Aliter Visum, Youth and Art, Waring, The Englishman in Italy, Old Pictures, in Florence.

Arnold, on Translating Homer, Essays on Wordsworth and Byron, Essay on Poetry, (Essays in Criticism, Second Series), Culture and Anarchy, Chap. III.

Carlyle, Sartor Resartus, Past and Present (Chapters: Phenomena, Mammonism, Dilettantism, Labour, Reward, Democracy.)

Ruskin, On Geneva.

Gibbon's Rome, Chap. XXXV.

Adam Smith, Wealth of Nations, Bk. I, Chap. I

J. H. Newman, Ancient Athens.

Final.

(Every candidate for Final Honours is subject to re-examination on the Intermediate texts).

A.

Coleridge, Monody on Chatterton, France, An Ode, To William Wordsworth, Christabel, Dejection An Ode, Hymn Before Sunrise in the Vale of Chamouni.

Shelley, Alastor, Hymn of Pan, Adonais, Stanzas written near Naples, Hymn to Intellectual Beauty, Prometheus Unbound.

Ruskin, Modern Painters, Vol. III, Part IV, Chaps. IV to XIII, (of the False Ideal, of the True Ideal, of Finish, of the Pathetic Fallacy, of Classical Landscape); The Stones of Venice (On the Nature of Gothic).

Carlyle, Life and Letters of Cromwell, [Introduction, Letters CXXXIX and CXL, containing accounts of the Battle of Dunbar (Part VI); Letter CLXXXVII, The Dismissal of the Rump (Part VII).]

Scott, Old Mortality.

Emerson, The Method of Nature, Literary Ethics (Essays and Orations).

Arnold, Essays in Criticism (First Series), On the Study of Celtic Literature, Sections 4, 5, 6; Culture and Anarchy, Chaps. II and III.

De Quincey, On Style (Historical and Critical Essays).

Browning, A Blot on the 'Scutcheon.

Clough, Religious Poems (except fragments of the Mystery), Amours de Voyage.

In addition the candidate is expected to understand the value of the following works, both as art and as interpretation of life, and to answer questions of a general nature on their style and methods:

Scott, The Antiquary, Redgauntlet.
Thackeray, Vanity Fair.
Hawthorne, The House of the Seven Gables.
Carlyle, Life of John Sterling.
Emerson, The American Scholar.

B.

ROMANCE PHILOLOGY.

1. The poetry of Chaucer is the centre of studies in this course.
2. Origin and development of the octosyllabic couplet; origin and development of decasyllabic verse.
3. The Compleynte unto Pite, The Book of the Duchess, House of Fame, and the Legend of Dido (Legend of Good Women). Use Skeat's edition of Chaucer's Minor Poems and The Legend of Good Women.
4. Development of the sonnet-form and its use by Petrarch, Spenser, Shakespeare, Milton and Wordsworth.
5. The structure of the stanza, in Provencal and Italian poetry, and in Chaucer.

Consult Ten Brink, Chaucer, Studien zur Geschichte seiner Entwicklung. Chaucer's Sprache and Verskunst.

Sandras, Etude sur Chaucer.

Schipper, Altenglische Metrik (Englische Metrik, Erster Tehil).

Grober, Romanische philologie (Romanische Verslehre von E. Stengel).

Bartsch, Grundriss zur Geschichte der provenzalischen Literatur. Sections 1, 2, 3, 4, 5, 13, 14, 18, 21, 22, 23, 24, 25, 26, **27, 28,** 30, 44, 48, 49, 50, 56.

Dante, De Vulgari Eloquio. Lib. 2.

For Extra-Mural Students.

Junior Class.

Subjects of study the same as those for intra-mural students. A fee of $3 is charged for tutorial assistance.

Senior Class.

Subjects of study the same as those for intra-mural students. A fee of $5 is charged for tutorial assistance.

Honours.

The subjects of study for Honours are the same as those for intra-mural students. A corresponding class will be formed for the purpose of assisting the extra-mural students in intermediate and final honours in this department. The course will consist of extracts from Professor Cappon's lectures, selected chiefly for the purpose of suggesting methods of analysis and criticism, and accompanied by papers containing hints for study and prescribing themes for exercises and essays. This course is voluntary,

and a corresponding tutor has been appointed to communicate with extra-mural students who may wish to take it.

A special fee of ten dollars will be charged for this course.

N.B.—Candidates who do not take the full course described above must at least take the part relating to exercises and essays. For this part alone the fee will be five dollars.

ELOCUTION.

A course in Elocution lasting about two and a half months will be given during the first term. The instructor will be the Rev. James Carruthers.

I. Vocal Training.

1. *Elements of Vocal Training.* Correct method of breathing. Training of the natural use of the voice. Faults of the voice, studied and corrected.

2. *Principles of Vocal Training.* Study of the vocal instruments and their natural use. Science of voice production.

II. Phonology.

1. *Vowels. Principles of vowel formation.* Distinction between vowels and articulations (Consonants).

2. *Articulation. Study of the elements of speech.* Development of the organs of articulation. Correction of common faults.

3. *Pronunciation. Training of the ear. Vocal quantity.*

Vocal Expression.

1. *Elementary principles of Vocal Expression.* Principles of inflection. Modulation. Emphasis. Verbal Grouping. Pausing. Expressive Reading.

IV. Gesture.

1. *Elementary Gesture.* Nature and kinds of action.

2. *Manifesting Gesture.* Study and development of the action of each agent of the body and expression.

3. *Representative Expression.*

Note on Gesture.—The training outlined on Gesture is intended to dignify the study of it, by taking it out of the realm of studied artificially, and by showing it to be a vital, organic part of the oral interpretation of literature and of public speaking. This training consists of Physical exercises for which special classes will be arranged.

Note—Individual Drill.—Students will be shown and helped personally in the particular work of the course. Two and a half hours each day will be devoted to individual drill.

V. Advanced Work.

Principles of vocal expression. Assimilation and dramatic instinct. Development of the imagination. Rhythm and melody in speech. Tone-color and harmony. Problems in vocal expression. Study of elementary psychic action and the practice of short extracts as the means of studying and expressing thought and feeling. Extemporaneous speaking.

Students passing this course will be allowed 5 marks on either the Junior or Senior English examination. A fee of $3 will be charged.

HISTORY.

Professor.—Rev. George D. Ferguson, B.A.

Tutor.—D. N. Morden.

Junior Class.

Medieval History.

A.

Lectures on:

Th Study of History, its methods and purposes.
The Fall of the Roman Empire and rise of new nationalities.
The Feudal System.
The Crusades.
The Struggle of the Towns in the Middle Ages for Independence.
The Growth of Monarchy especially in France.
Europe at the time of the French Revolution.
The Congress of Vienna.

Text-book: Ferguson's Lectures on the History of the Middle Ages.

Books recommended to be read:

Gibbon's Decline and Fall of the Roman Empire.
Guizot's History of Civilization.
History of France by W. H. Jervas, revised by Arthur Hassall.

Senior Class.

English Constitutional History.

Lectures on:

The development of representative government.
The British Constitution.
The Constitution of the United States.
The Canadian Constitution.

Students will also be examined on:

Bourinot's Constitution of Canada.
Green's Larger History of the English People.

Books recommended to be read:

Freeman's Growth of the English Constitution.
Bryce's American Commonwealth.

Essays are required in each class.

JUNIOR CLASS.

English Constitutional History.

Text-books:—Hallam's Middle Ages, Chaps. VIII and IX.
Green's Larger History of the English People.

Students are also required to make themselves familiar with other books mentioned below, and to write essays in connection with them, which are to be given in punctually at the time stated.

Essay:—Representation in the Early English Courts and its influence on the latter Constitution, Oct. 19.

Stubbs' Constitutional Hist. of England, Vol. I.
Guizot's Representative Government.

Essay:—Domesday Book, Nov. 14.

Ellis' Introduction.
Maitland's Domesday Book and Beyond.
Stubbs' Constitutional History, Vol. I.

Essay:—Constitutional Development under the Lancastrian Kings, Dec. 12.

Stubbs' Constitutional History, Vol. III.
Ramsay's Lancaster and York.
Pauli's Geschichte von England, Vol. V.
The Paston Letters.

Essay:—The Barons' Wars and the Parliament of Simon de Montfort, Jan. 14.

Balaauwr's War of the Barons.
Pauli's Simon de Montfort.
Stubbs' Constitutional History, Vol. II.

Essay:—Walpole and his Administration, Feb. 13.

Walpole's Life by Townshend.
Lord Mahon's Hist. of England, Vol. II.
Walpole by John Morley, English Statesmen Series.
Parliamentary Debates.

Essay:—Wm. Pitt (The Younger), March 13.

Pitt's Life by Stanhope.
Pitt's Speeches.
Life of Fox by Trevelyan.
Pitt by Lord Rosebery, E.S. Series.

SENIOR CLASS.

(*Mediaeval History.*)

Text-book: Ferguson's Lectures on the History of the Middle Ages.

Essay:—Roman Imperialism, Oct. 24.
Seeley's Essays, Roman Imperialism.
Congreve's Roman Empire of the West.
Hodgkin's Italy and her invaders, Vol. II.
Goldwin Smith's Review of Congreve's Essay. Oxford Essays, 1856.
Essays—The Italian Colonies in the Aegean at the time of the Crusades, Nov. 21.
Heyd's Le Commerce du Levant.
Darus' Histoire de Venise, Vol. I.
Gibbons' Decline and Fall of the Roman Empire, Chaps. LVIII and LIX.
Essay—The War of Investitures, Dec. 19.
Villemain's Vie de Gregoire VII.
Hildebrand, Essay by Sir Jas. Stephens.
Milman's Latin Christianity, Vol. III.
Giesebricht Geschichte der Deutschen Kaiserzoit, Vol. III.
Essay:—The States General of France in the 16th Century, especially in relation to the religious parties, Jan. 22.
Histoire des Etats-Generaux par Geo. Picot. Vol. II.
Ranke's Franzoesische Geschichte, Vol. I-III.
Phillipson's West Europe im Zeitalter von Phillip II.
Elizabeth und Heinrich IV.
Lavisse's Histoire de France, Vols. V and VI.
Ranke's Religious Wars of the 16th Century.
Essays:—Richelieu, especially his conduct in the Thirty Years' War, Feb. 20.
La vie de Richelieu par M. Hanotaux.
Gindeley's Hist. of the Thirty Years' War, Vol. II.
Gardiner's Hist. of England, 1603-41, Vol. VII.
Richelieu by Richard Lodge. Foreign Statesman series.
Essay:Turgot and his place in French Politics, March 18.
Life of Turgot, by Walker & Stephens.
Critical Miscellanies by John Morley, Vol. II.
Say's Life of Turgot trans. by Masson.
Nourisson Trois Revolutionaries.
Carlyle's Hist. of the French Revolution, Vol. I.

Honours.

Preliminary.

Stubb's Constitutional History of England, Vols. I, II and III, and Select Charters.
Guizot's Representative Government.
Rousseau's Social Contract.
Mill's Representative Government.

Books recommended:
Machiavelli's Prince.
Dicey's, The Law and the Constitution.

Hearn's Government of England.
Kemble's Anglo-Saxons in England.
Gneist's English Constitution.

Both Intra and Extra-mural students in Honours are required to write the following essays, and in writing them to show some acquaintance with original authorities.

Essay:—The four great Earldoms established by Canute. Nov. 7.

Stubb's Constitutional History of England, Vol. I.
Pauli's Geschichte von England, Vol. I.
Freeman's Norman Conquest, Vol. I.

Essay:—A review of the Dialogus de Scaccario. Dec. 12.

Stubb's Select Charters.
Madox's History of the Exchequer.

Essay:—Cabinet Government under Queen Anne. Jan. 16.

Hill Burton's Hist. of Queen Anne Reign.
Torren's History of Cabinets.

Essay:—The Strugglts of Parties in regard to the Reform Bill of 1832. Feb. 27.

Walpole's Hist. of England.
Life of Sir Robert Peel.
Walpole's Memoirs of William IV.
Parliamentary History, Vol. XXII.

Essay:—Development of English Law down to the Tudors. March 7th.

Pollock and Maitland's History of English Law.
Sir James Stephen's Introduction to Commentaries on the Laws of England.
Phillips' Englische Reichs and Rechtsgeschichte, including Glanvil's Tactatus de Legibus regni Angliae.

Final.

Lectures:

(*a*) A comparison of the British Constitution with other Constitutions, especially with that of the United States. (*b*) On the Government of Colonies. (*c*) On the Foreign Policy of Britain. (*d*) On Cabinet Government and its Relation to the other powers in the state.

Students will also be examined on:

Hallam's Constitutional History of England.
May's Constitutional History.
Bryce's American Commonwealth.
Bagehot's English Constitution.
Bourinot's Manual of the Constitutional History of Canada.

Books recommended:

Todd's Parliamentary Government in England.
Todd's Parliamentary Government in the British Colonies.
De Tocqueville's Democracy in America.

The books mentioned in connection with the prescribed essays are suggested as easily procured, and at little cost, but others of equal value may be substituted.

A fee of $3.00 for the Junior Class, and $5.00 for the Senior and Honour Classes, payable with the Registration fee not later than the 17th October, is required.

Students in Final Honours are required to write a Thesis on one of the subjects given below. The writer of the Thesis must show that he has consulted original authorities. The subject selected should be submitted to the Professor as early as possible. The Thesis is to be given in by March 1st.

SUBJECTS FOR THESIS.

I. A comparison of the Teutonic codes, with Roman Jurisprudence as exemplified in the Institutes of Justinian and the Theodosian code.
Corpus Juris Germanici edit Fred Walter.
Pardessus La Loi Salique.
Waitz's Das Alte Recht der Salischen Franken.
The Anglo Saxon Laws.
Institutes of Justinian by Abby and Walker.
Codex Theodosianus.

II. A review of the Year Books of Edward III. Roll Series.

III. The Peasant rising of 1381.
Reville and Petit-Dutailles. Le Soulevèment des Travailleurs. d'Angleterre in 1381.
England in the Age of Wicliffe by G. M. Trevelyan.

IV. The Administration of Justice under the Normans.
Stubb's Constitutional History of England. Vol. I.
Freeman's Norman Conquest.
Historia Normaniae de Odericus Vitalis.
Coutumiers de Normandie par Mons Tardif.

V. A review of the Thirteenth Century.
The Chronicles of Mathew Paris. Vols. 4, 5, 6, Roll Series.
Social England. Vol. I.
Steins Das Bildungwesen des Mittelaters.
Rossiere's Hist. de la Societé au Moyen Aye.

MENTAL AND MORAL PHILOSOPHY

PROFESSOR OF MORAL PHILOSOPHY — John Watson, M.A., LL.D.
PROFESSOR OF MENTAL PHILOSOPHY — S. W. Dyde, D.Sc., LL.D.
FELLOW IN MORAL PHILOSOPHY — J. M. MacEachran, M.A.
FELLOW IN MENTAL PHILOSOPHY — R. A. Wilson, M.A.

MENTAL PHILOSOPHY — Professor Dyde.

This class is divided into two parts (*a*) The study of Systematic Philosophy, and (*b*) The study of a special period of Philosophy.

(*a*) Lectures on the method of Philosophy; a brief outline of Metaphysics, Ethics and Philosophy of Religion.

Books recommended to be read:

Mackenzie's Outline of Metaphysics and Manual of Ethics.
Stout's Manual of Psychology.
Palmer's, The Field of Ethics.

(*b*) The History of Greek Reflection. Study of Plato's Theætetus and Aristotle's Ethics (Peters' or Welldon's translation).

Books recommended to be read:

Plato, Republic; Wallace, Epicureanism.
Attendance and exercises are compulsory.

MORAL PHILOSOPHY — Professor Watson.

Text-book: Watson's *Outline of Philosophy with Notes Historical and Critical.* Supplementary Lectures, Tuesday and Thursday. Attendance and exercises are compulsory.

NOTE — Candidates in Mental and Moral Philosophy, who do not pass the April or supplemental examination, must in the session in which they desire again to try the examination, write the essays prescribed for extra-mural students, hand them in to the Tutor for examination and correction, and pay to the Registrar the tutorial fee of $5.

SPECIAL VOLUNTARY CLASS, 1906-7 — Professor Dyde.

A special course of lectures on Aesthetics will be given one hour a week, free and open to students in any of the faculties. The hour will be arranged for and announced at the beginning of the session.

For Extra-Mural Students.

MENTAL PHILOSOPHY.

Students are expected to show familiarity with the substance of the books mentioned below. They are recommended to take up the work in the following order:

1. Schwegler, History of Philosophy, XI-XV.
   Plato, Theætetus (Dyde's Translation).
   Plato, Republic, Bks. I, II.
   Essay for 15th Oct.:—The relation of Plato to the Sophists.
2. Plato, Republic, Bks. III, VII.
   Schwegler, History of Philosophy, XIV.
   **Essay* for 1st Nov.:—Plato's Theory of Education.

3. Aristotle, Nichomachean Ethics (Peter's Translation).
   Schwegler, Historv of Philosophy, XVI.
   Essay for 21st Dec.:—The relation of Aristotle's Ethics to his Psychology.
4. Schwegler, History of Philosophy, XVII-XXI.
   Capes, Stoicism (New York: Pott, Young & Co.)
   Wallace, Epicureanism.
   Essay for 1st Feb.:—Stoicism and Epicureanism.
5. Schwegler, History of Philosophy, XXII-XXVI.†
   Essay for 15th Feb.:—The Principles of the Cartesian Philosophy.
6. Schwegler, History of Philosophy, XXVII-XXXV.
   Fraser, Selections from Berkeley.
   Fraser, Berkeley (Blackwod's Philosophical Classics).
   Essay for 14th March:—The Development of the Philosophy of Berkeley.

For the examination, correction and return of the essays, a Tutor's fee of $3 is charged. The essays are to be sent to the Tutor and the Fee to the Registrar.

MORAL PHILOSOPHY—Professor Watson.

Students will be examined upon Watson's "Outline of Philosophy, with Supplementary Notes, Historical and Critical," and "Hedonistic Theories." Weekly exercises will be prescribed, covering the whole of this work. These are compulsory and they will be examined and corrected by the Tutor, under supervision of the Professor. To compensate the Tutor, a special fee of $5.00 is charged, which must be sent to the Registrar at the time of Registration. The first exercise must be sent in by the middle of October.

HONOURS.

Preliminary—Professor Watson.

Critical Study of the Philosophy of Cant.
Text-books:—Watson's Selections from Kant, and Caird's Critical Account of the Philosophy of Kant.

Final.

Students desiring to write for Honours in Latin, Greek, French, German, English, History or Political Science, may complete their Honour Course by taking any one of the following departments:

A.—FIRST DEPARTMENT.

Critical study of Hegel's Wissenschaft der Logik. Lectures on the Principles of Metaphysic. Professor Watson.

Lectures on the Principles of Aesthetics. Examination of Aristotle's Poetics. Professor Dyde. Essays for the Class of English Philosophy.

15th Nov.:—Relation of Locke to Hobbes.

20th Dec.:—Green's Analysis of Locke. (Green's Introduction to Hume).

7th Dec.:—Spencer's Unknowable. (Spencer's First Principles. Caird's Evolution of Religion, vol. I.)

14th March:—Bradley's Interpretation of the Absolute. (Bradley's Appearance and Reality).

NOTE.—As a substitute for the essays required in this and the other departments a more comprehensive essay, not less than 40 pages of foolscap in length, may be offered.

Candidates will be examined on the following works:

Kant, as in Preliminary Honour Class.
Bacon, Novum Organum.
Hobbes, Leviathan.
Locke, Essay on the Human Understanding.
Hume, A Treatise on Human Nature.
Mill's Logic, Examination of Hamilton and Utilitarianism.
Spencer's First Principles, Data of Ethics.
Green's Prolegomena to Ethics.

B.—SECOND DEPARTMENT.

Lectures on the Principles of Metaphysic. Prof. Watson.
Critical reading of Plato's Sophist in the original. Prof. Dyde.

Essays for Class in Plato:

15th Nov.:—Plato's Dialectic (Plato's Sophist).

20th Dec.:—The Sophistic Conception of the State. (Plato's Protagoras and Republic II, Aristotle's Politics I.)

7th Feb.:—Plato's Proof of the Existence of God (Republic II, III, Laws X-XII.)

14th March:—Aristotle's Definition of Tragedy. (Aristotle's Poetics, Bosanquet's History of Aesthetic.)

Candidates will be examined on the following works:

Kant, as in Preliminary Honour Class.
Plato, Theætetus, Republic
Aristotle, Nicomachean Ethics.
Green's Prolegomena to Ethics.

Books recommended to be read:

Campbell, Translation of Aeschylus; Whitelaw, Translation of Sophocles; Way, Translation of Euripides; Butcher, Aristotle's Poetics; Bosanquet, History of Aesthetic; Pater, Plato and Platonism; Wallace, Epicureanism; Maier, Die Syllogistik des Aristotles.

C.—Third Department.

Critical Study of Hegel's Wissenschaft der Logik. Lectures on the Principles of Metaphysic. Professor Watson.

Examination of Hegel's Philosophy of Right. (Dyde's Translation.) Professor Dyde.

Essays for Class in Hegel's Phil. of Right:

15th Nov.: Hegel's Theory of Crime and Punishment. (Phil. of Right, pp. 90-103; Bosanquet, chap. VIII.)

20th Dec.: Time and Dialectic. (Phil. of Right, section 3, 341-360, etc.)

7th Feb.: The Nature of Evil. (Phil. of Right, section 140.)

14th March: Religion and the State. (Phil. of Right, section 270.)

Candidates will be examined on the following works:

Kant, as in Preliminary Honour Class.
Descartes, Discourse on Method and Meditations.
Leibnitz, Monadology.
Spinoza, Ethica, De Intellectus Emendatione.
Hegel, Wissenschaft der Logik, Philosophy of Religion, Philosophy of Right.
Green's Prolegomena to Ethics.

Books recommended to be read:

Caird, Hegel; Wallace, Hegel's Philosophy of Mind, Prolegomena to the Study of Hegel's Philosophy.

Mental and Moral Philosophy.

.. Students desiring to write for Honours in Mental and Moral Philosophy may take A and B, A and C, or B and C.

POLITICAL SCIENCE.

Professor—Adam Shortt, M.A.
Fellow—J. A. Donnell, M.A.

Economics.

The lectures will include a discussion of the general principles of Political Economy.

Text-book for general reference: Gide's Principles of Political Economy.

POLITICS.

The lectures will include a critical examination of the leading theories of the State, and a discussion of the nature of Social and Political Relations.

In both classes essays will be required.

Economics and Politics may be taken during the same session.

For Extra-Mural Students.

ECONOMICS.

Candidates will be examined on the following books:
Fetter's Principles of Economics.
Price's English Commerce and Industry.

Essays during Session 1906-1907.

The character of the Mercantile system; Price, chaps. 7 and 8.
The relation of human wants to economic goods; Fetter, Division A.
The nature and function of modern capital; Fetter, Part I, Division C.
The wages system, its rise and present condition; Price, chap. IX.; Fetter, Part II, Division A.
Money and Credit and their relative functions in modern trade; Fetter, chaps. 45 to 50.
The causes and effects of industrial combinations: Fetter, Part II, Division B.
The functions and regulation of railroad corporations; Fetter, chaps. 54, 55.
A fee of $3 is required.

POLITICS.

Candidates will be examined on the following books:
Aristotle's Politics, Weldon's Translation, Bks. I, III, IV, V.
Rousseau's Social Contract.
Leroy Beaulieu, The Modern State.

Essays during Session 1906-1907.

A comparison of the views of Aristotle and Rousseau as to the origin of the state. Politics, Book I; Social Contract, Book I.

Aristotle's conception of the good citizen. Politics, Book III.

A general examination of Aristotle's views on education. Politics, Books, IV, V.

A general examination of Rousseau's view of the state.

The relations of individuals to society. Leroy Beaulieu; Rousseau.

A comparison of the ancient and modern state.
The function of the state. Leroy Beaulieu.
A fee of $3 is required.

HONOURS.

Preliminary.

This class will meet for the discussion of Economic, Social and Political Principles, and for the critical reading of portions of the work prescribed for Honours.

A course of lectures will be given on Canadian Economic and Political History.

Candidates will be examined on the following books:

ECONOMICS.

Smith's Wealth of Nations.
Mill's Principles of Political Economy.
Nicholson's Principles of Economics, vol. I.
Ingram's History of Political Economy.

POLITICS.

Maine's Ancient Law.
Wilson's The State; Historical and Practical Politics.
Dicey's Law and Public Opinion in England.
Lowell's Governments and Parties in Continental Europe.

Final.

This class will meet for the further discussion of Economic, Social and Political Principles.

Candidates must show familiarity with the substance of the following books:

ECONOMICS.

Cunningham's Western Civilization in its Economic Aspects.
Scott's Money and Banking.
Seligman's Essays in Taxation.
Ripley's Pools and Trusts.
Commons' Trade Unionism and Labor Problems.
Greene's Corporation Finance.
Johnson's Railway Transportation.

POLITICS.

Sidgwick's Development of European Polity.
Holland's Elements of Jurisprudence.

Arnold's Culture and Anarchy.
Rae's Contemporary Socialism.

An essay embodying independent work in some section of the Honour Course will be required from every candidate for Honours.

Extra-mural students are required to pay a fee of $5.00 for either the Preliminary or Final Honour Class.

ARCHAEOLOGY.

During the month of November, 1906, a course of nine lectures in Archaeology will be given by Mr. David Boyle, Provincial Archaeologist.

These lectures will be free and open to the students of all faculties.

MATHEMATICS.

PROFESSOR—N. F. Dupuis, M.A., F.R.S.C.
ASSISTANTS—J. Matheson, M.A., A. Kennedy, M.A.
TUTOR—J. Fairlie.

JUNIOR CLASS.

The theory and practice of *Algebra* to the Binomial theorem inclusive. Dupuis' Algebra—the first thirteen chapters, omitting chapter XI.

Geometry of the point line and circle in the plane. Parts I and II, and selections from Parts III, Dupuis' Plane Geometry.

Trigonometry, Elementary Principles, (2nd term).

Besides numerous class-exercises, periodical written exercises will be required.

SENIOR CLASS.

Algebra—Dupuis' Algebra, from the twelfth chapter to the end.

Geometry—Part III of Dupuis' Plane Geometry, and the first 131 pages of Dupuis' Solid Geometry.

Trigonometry—Preceding De Moivre's theorem.

Besides numerous class exercises, periodical written exercises will be required.

HONOURS.

Candidates who matriculate with Honours in Mathematics are not required, in their subsequent Honour Course, to take either the Junior or the Senior Class, but they are advised to read the Geometry of the Junior Class.

Candidates who do not marticulate with Honours must take the Junior Class as preparatory to their Honour work, but they need not take the Senior Class inasmuch as the work of this class is covered in the first group of Honour subjects.

Group I.

1. *Synthetic Modern Geometry.*—Two hours per week for the first term and one hour per week for the second term.
2. *Algebra I.*—One hour per week during the session.
3. *Trigonometry I.*—Plane Trigonometry preceding Demoivre's theorem. One hour a week during the session.
4. *Conics I.*—Elementary Co-ordinate Geometry. One hour a week for first term, and two hours a week for second term.

Books, &c.:—

1. Dupuis' Plane Geometry, Parts III, IV, V.
2. Dupuis' Algebra, from Chapter XI to the end. Reference to Hall and Knight's Higher Algebra, first 27 chapters.
3. Hobson and Jessop's Plane Trigonometry, also Lachlan and Fletcher.
4. Lectures. Examples from Loney and other sources.

Group II.

5. *Synthetic Solid Geometry.*—One hour per week for the session.
6. *Calculus I. Elementary, Differential and Integral.*—One hour per week during the session.
7. *Spheric Trigonometry and Astronomy.*—One hour a week during the session. Every alternate year, 1906-7.
8. *Elementary Theory of Functions.*—One hour a week during the session, every alternate year. 1907-8.

Books, &c.:—

5. Dupuis' Solid Geometry.
6. Lectures, with reference to Edwards, Taylor and Gibson.
7. Lectures, with reference to Dupuis' Trigonometry, and Barlow and Bryan's Mathematical Astronomy.
8. Lectures.

Groups III and IV.

9. *Analytic Solid Geometry.*—One hour a week, every alternate year.
10. *Calculus II.*—Two hours a week for first term, and one hour a week for second term, every alternate year.
11. *Different Equations and Finite Differences.*—One hour per week for the session, every alternate year.
12. *Trigonometry II and Quaternions.*—One hour per week, every alternate year.

13. *Conics II.*—One hour a week for first term, and two hours a week for second term, every alternate year.

14. *Determinants and Theory of Equations.*—One hour a week for first term, every alternate year.

15. *Algebra II.*—One hour a week for second term, every alternate year.

Books, &c.:—

9. Lectures, Aldis, Smith, Salmon.

10. Lectures, Edwards, Williamson, &c.

11. Lectures, Johnson's Diff. Equations.

12. Lectures, Lock's Higher Trigonometry, Kelland and Tait's Quaternions.

13. Salmon.

14. Consult Weld's Determinants, Burnside and Panton's Theory of Equations.

15. Hall and Knight, Chap. XXVII to the end.

Of Groups III and IV, 12, 13, 14, 15 will be taken in session 1906-7.

Group I taken as a part of a Pass Course will count for Senior Mathematics and one of the optional subjects in Courses I and II as given on page 53, provided that in his examination on this group the candidate makes at least 33 per cent. on each subject, and an average of 50 per cent. on the whole group.

Candidates for Honours must make a minimum of 40 per cent. upon each subject of group I, and 60 per cent. upon the whole group, at one examination, after which no further examination on this group will be required.

Candidates for Honours must make at least 50 per cent. upon the subjects numbered 5, 6, 7, 8, but honour standing will be determined by the examination on the subjects numbered 9, 10, 11, 12, 13, 14 and 15.

The subjects of Groups II, III, and IV must be taken in not more than two examinations, and at any examination a candidate may offer any subject upon which he has failed at a previous examination. But 9, 10, 11, 12, 13, 14 and 15 must be taken at the final examination.

Candidates are recommended to follow the order of subjects as indicated above, as nearly as may be practicable.

Extra-mural students must pay for tutorial assistance—$3.00 for each Pass Class or $5.00 for any group of the Honour Classes.

PHYSICS.

PROFESSOR EMERITUS—D. H. Marshall, M.A., F.R.S.E.
ASSOCIATE PROFESSOR—N. R. Carmichael, M.A.
LECTURER—W. C. Baker, M.A.
DEMONSTRATOR—F. L. Sine.
TUTORS—J. C. Pomeroy and D. J. Fraser.

JUNIOR CLASS.

Lectures and demonstrations are given in the following subjects: Dynamics and Properties of Matter, one hour per week; Heat and Light, one hour per week; Electricity, Magnetism and Sound, one hour per week.

Text-books: Marshall's Introduction to the Science of Dynamics.
Watson's Text-book of Physics; selected portions.
Carmichael's Physical Experiments.

Weekly exercises are given throughout the session.

A knowledge of Algebra, Geometry, and the rudiments of Trigonometry on the part of the student is assumed.

Students are required to spend two hours a week in the Laboratory doing experimental work. Hours for this purpose will be arranged as far as possible to suit the students.

SENIOR CLASS.

The work of this class is largely a continuation of that done in the Junior class. The same text-books are used.

Weekly exercises are given throughout the session.

Students are required to spend two hours a week in the Laboratory doing experimental work.

Students who are allowed to take the Senior Class without having attended the Junior are strongly recommended to attend the lectures of the Junior Class, especially those upon Heat, Light, Electricity, Magnetism, and Sound. In the Junior Class the fundamental experiments in these subjects are shown and discussed, while in the Senior Class more attention is paid to the development of physical theory.

HONOURS.

Preliminary.

Students intending to complete the Honour Course in Physics are required to take the Preliminary Honour Class at the University.

Students should take Group I of Honour Mathematics before entering this Class.

The work includes:

Dynamics, two hours per week.
Marshall's Dynamics, Part III.
Hicks' Elementary Dynamics of Particles and Solids.

Heat, one hour per week.

Electricity and Magnetism, one hour per week.
J. J. Thomson's Elements of the Mathematical Theory of Electricity and Magnetism.

Experimental work, two hours per week.
Selected experiments illustrating the subjects treated in the lectures.

Besides the prescribed text-books students are expected to read sections from other books and articles from the Journals to which they are referred from time to time. These may be found in the Library of the Department.

Final.

1. *Experimental work in the Laboratory.*

Honour students are expected to spend a large portion of their time in the Laboratory. In the first year their work will consist of a selected course of advanced experiments in Mechanics, Heat, Light, Sound, Magnetism and Electricity; in the second year, of a small number of more elaborate measurements intended to acquaint them with some of the methods and instruments used in modern research.
required.

2. *An Elementary Course in Theoretical Mechanics.*
Ziwet's Theoretical Mechanics.

3. *An Advanced Course in Theoretical Mechanics.*

4. *Heat.*

5. *Physical Optics.*
Schuster's Theory of Optics.
Mann's Manual of Optics.

6. *Electicity and Magnetism.*
Electric Waves, Conduction of Electricity through Cases, Radioactivity.

Lectures are given upon subjects 5 and 6 in alternate sessions. Subject 5 will be taken up in session 1906-7.

HONOUR EXPERIMENTAL PHYSICS.

This class must be taken at the University.

The work required under this title in Honour Course C (1) and Specialists' Course VIII (6) consists of:

1. The Laboratory work of the Preliminary and Final Honour Physics classes (omitting portions which involve advanced mathematical theory).

2. Selected parts (not requiring advanced mathematics) of the courses of lectures given in the Honour Classes.

3. Reading of prescribed articles from magazines and books relating to the experiments performed.

Library.

The principal Physical Journals and books relating to the Lectures and Laboratory work are kept in the Library of the Physics Department where they may be freely consulted by the students.

For Extra-Mural Students.

Extra-mural students pay for tutorial assistance, $3.00 for Junior or Senior Class, or $5.00 for the Preliminary Honour Class. They are expected to do the weekly exercises prescribed. They should also write to Professor Carmichael stating what facilities, if any, they have for making experiments. Experiments will be prescribed to suit their circumstances as far as possible.

Under special circumstances a limited amount of apparatus may be sent from the Laboratory upon conditions to be arranged.

Junior Class.

The Text-books required are:

Marshall's Introduction to the Science of Dynamics.
Watson's Text-book of Physics.
Carmichael's Physical Experiments.

A syllabus of the work giving the sections of the text-books to be read and information about exercises, etc., will be sent to the students. The sections will be selected to correspond as far as possible with the work done by intra-mural students.

Senior Class.

The text-books required are the same as for the Junior Class. A syllabus will be sent prescribing the sections to be read and giving information about exercises, etc.

Preliminary Honours.

Taking this Class extra-murally does not qualify a student to proceed to the Final Honour Class.

A syllabus of the work, stating the text-books required and the portions to be read, and the experiments to be performed, will be sent.

BOTANY.

PROFESSOR—Rev. James Fowler, M.A.
TUTOR—Beatrice Birch, B.A.

Pass Class.

Class meets at 10 a.m. Lectures embrace the following subjects: General morphology of the plant body, segmentation, symmetry, arrangement of lateral members of the common axis, branch systems.

Special morphology of the members, (1) Roots, different forms, duration, parasites; (2) Stems, their forms, climbing stems, &c.; (3) Leaf, phyllotaxis, venation, vernation, forms; (4) Trichomes, &c.; (5) Flowers; (6) Fruits; (7) Arrangements for cross-fertilization, close-fertilization.

Anatomy of plants (Histology), cell, cell-wall, protoplasm, Chlorophyll, starch, etc.; formation of new cells, tissues, system of tissues.

Study of specimens belonging to leading orders.

Text-Books:—Spotton's Structural Botany and Wild Plants of Canada, Coulter's Plant Relations.

HONOURS.

Preliminary.

The class meets daily during the session at 11 a.m.

Careful study of Phænogamous plants of Canada, embracing about three hundred species, representing all available orders.

The subjects of Morphology and Histology are carefully studied with the aid of models, diagrams and microscopic specimens.

Physiology, elementary constituents, plant-food, absorption, metabolism, respiration, transpiration, movements of water and gases, chemical process, root pressure, bleeding, growth, effects of moisture, temperature, light, &c.
Laboratory work daily, consisting of study of specimens.
Lectures on Ecology.
Essays are required on prescribed subjects.

Books for study and Laboratory work:

Gray's Structural Botany.
Bessey's Botany.
Gray's Manual.
Stevens' Introduction to Botany.
Atkinson's Elementary Botany.
Barnes' Plant Life.
Coulter's Plant Structures.
Clark's Practical Methods in Microscopy.

Final.

This class meets daily during the session at 11 a.m.

The first half of the session is devoted to the more extended and minute study of (1) Morphology, and (2) Histology. The subject of Physiology is taken up during the second half.

Practical work in the laboratory consists in the careful examination of (1) Algae; (2) Fungi and Lichenes; (3) Bryophyta; (4) Pteridophyta; (5) Gymnospermae; (6) Gramineæ; (7) Cyperaceæ.

Essays are required on prescribed subjects.

Vines' "A Student's Text-book of Botany" must be read for examinations.

Books for laboratory work and reference:

Gray's Manual.
Sach's Text-book of Botany.
Darwin and Acton's Physiology of Plants.
Lesquereux and James' mosses of N. America.
Tuckerman's Lichens.
Strasburger and Hillhouse's Practical Botany.
Arthur, Barnes and Coulter's Plant Dissection.
Kerner's Natural History of Plants.
Honour examinations are held at the University only.

ANIMAL BIOLOGY.

PROFESSOR—A. P. Knight, M.A., M.D.
LECTURER—T. F. Etherington, M.D., C.M.

Students in Medicine are required to take the class in elementary morphology.

Students in Arts have the option of taking either the class in elementary morphology, or the class in elementary physiology and hygiene.

Students in Arts who intend subsequently to study medicine are advised to take the pass and honour classes and thus complete their physiology and histology during their undergraduate course. Besides the special course for B.A., M.D., the honour course in science, C, number 2, (with Animal Biology) page , or the specialists' course in science, page , is suitable for this purpose. The course in sanitary engineering for the degree

of B.Sc. in practical science, is also suitable for medical students.

Dr. C. K. Clarke, Medical Superintendent of the Toronto Hospital for the insane, will give a short course of lectures upon heredity and insanity in relation to crime and the treatment of the criminal.

ELEMENTARY MORPHOLOGY.

Lectures or demonstrations will be given tri-weekly at 9 a.m.

The lectures treat of protoplasm, cells, cell division, reproduction, early stages of development, tissues, organs, differences between animals and plants, general view of the invertebrata and of the vertebrata, organic evolution, every-day lives of animals.

The laboratory work consists of such dissections and demonstrations as will elucidate the subject of the lectures. The lectures are illustrated by diagrams, charts, and lantern transparencies. Text-books, General Zoology by C. W. Dodge; Animal Life by Jordan and Kellog; (American Book Co.)

The senior leaving examination in biology of the Education Department is accepted in lieu of attendance and examination in this class.

Extra-Mural Students.

Extra-mural students and students who do not attend the class lectures aud demonstrations are required to do the practical work outlined for Honour Matriculation in Zoology. They will be examined on Professor Ramsay Wright's *High School Zoology*.

ELEMENTARY PHYSIOLOGY AND HYGIENE.

Lectures will be given on Tuesdays and Thursdays at 10 a.m. on physiology, and Fridays at 11 a.m. on hygiene.

The lectures will treat of the functions of bones, joints and muscles; the relation of muscle and nerve; the work of blood and lymph; the circulation of these tissues; diet, digestion, absorption, metabolism, respiration and animal heat; excretion; nervous system and special senses; personal, household, municipal and national hygiene.

HONOURS.

Candidates who have not matriculated with honours in biology and who intend to take an honour course in the subject must first take the pass class.

The course in comparative and practical anatomy extends over two years, and the work of each year is read in class every alternate session.

Preliminary honours are awarded on the honour papers of the first session in honours. The class in elementary physiology and hygiene is part of the preliminary honours course.

Final honours are awarded on the honour papers of both sessions taken together.

The lectures and demonstrations in "physiology" and "histology" are attended simultaneously by students in medicine and arts. The honour work in physiology for the second year lasts during the whole session.

Graduation in honours in the department of biology lessens, by one year, the length of the course required by the Medical Council of Ontario.

HONOURS.

Extra-Mural Students.

Extra-mural students can procure the necessary marine forms for dissection by ordering them from "The Supply Department, Marine Biological Station, Woodshole, Mass., U. S." The histological specimens required for microscope study can be purchased from Thomas Little, Laboratory Assistant, Queen's University at the rate of 25c per slide.

SESSION 1906-1907, 12 M. TO 1 P.M.

Biology of Invertebrata.

Examination of typical specimens of the different classes.
Histology and Embryology.
Physiology.
Daily Laboratory Work.
Dissection of all the forms in Huxley & Martin's text-book, (last edition,) and in addition, a grasshopper, a star fish, or sea-urchin, squid, sponge, and hydroid.

Books for study and laboratory work:

Text-book of Physiology, 2 Vols., edited by E. A. Schafer, LL.D.
Halliburton's Hand-book of Physiology, last edition.
Claus and Sedgwick's or J. Arthur Thompson's Zoology.
Huxley and Martin's Practical Biology.
Parker's Zootomy.
Brook's Hand-book of Invertebrate Zoology.
Weidersheim's Elements of Comparative Anatomy.
Foster & Langley's Histology, or Dr. Stirling's.
Balfour & Foster's Elements of Embryology.
Darwin's Origin of Species.

SESSION 1906-1907, 12 M. TO 1 P.M.

Biology of Vertebrata.

Study of types of the different divisions of Vertebrata.
Histology and Embryology.
Physiology.
Daily laboratory work.
Dissections of balanoglossus, a tunicate, amphioxus, a fish, frog, bird and mammal.

The Honour examinations in this department are held at the University only.

CHEMISTRY.

PROFESSOR—William L. Goodwin, D.Sc., Edin.
ASSISTANT-PROFESSOR—John Waddell, B.A., D.Sc., Ph.D.
LECTURER—C. W. Dickson, M.A., Ph.D.
DEMONSTRATORS—Isaac Wood, M.A., M.D.; R. D. Guy, M.A.; D. R. Cameron, M.A.
W. E. H. Whinton, J. Hill.

JUNIOR CLASS.

Lectures: Monday and Tuesday at 11 a.m.
Laboratory: Wednesday at 11 a.m.

Chemical Species—Crystals and Crystallization—Chemical Change—Laws of Combination—Combining Weights—Relations of Heat to Chemical Changes—Notation—Equations Nomenclature—Volume Relations of Gases in Chemical Change—Volume Formulae—Molecular Weights—The Atomic Theory—Atomic Weights—Descriptive Chemistry of the Commoner Elements and their Compounds—The Periodic Law—Properties of Solutions—Electrolysis—Spectrum Analysis—Chemical Calculations.

Books: Newell's Descriptive Chemistry (D. C. Heath & Co., Boston).
Waddell's Arithmetic of Chemistry, (The Macmillan Company, N.Y.), Chapters I-V.

Beginners are advised to read Walker's Elementary Inorganic Chemistry (G. Bell & Sons, London).

SENIOR CLASS.

I. Organic Chemistry—Thursday at 11 a.m.

II. Chemical Laws and Theories—Friday at 11 a.m.

III. Special Chemistry of the Metals, their occurrence in nature, reduction and uses—Thursday at 8 a.m.

(II) with either (I) or (III) is required.

Books: Van Deventer's Physical Chemistry (J. Wiley & Sons).
Cohen's Theoretical Organic Chemistry (Macmillan & Co.).
Richter's Inorganic Chemistry, Chapters on Metals (P. Blakiston's Son & Co.)
Waddell's Arithmetic of Chemistry, Chap. VI to the end.

Students intending to proceed to Honours in Chemistry may begin Qualitative Analysis in the year in which they take Senior Chemistry.

HONOURS.

Preliminary.

(May be taken as a Pass Class.)

1. Organic Chemistry.
The detailed study of selected groups of carbon compounds and their preparation in the Laboratory. (1. *Organic Chemistry* of the Senior Class must be taken along with this, if not already taken. A knowledge of nos. I, II and III of the Senior Class is required for Honors).
Wednesday, 2 to 5 p.m.

2. Industrial Chemistry (or *Physiological and Pathological Chemistry). Monday and Thursday at 3 p.m.

3. Crystallography (Elementary) See Mineralogy (First Term).
4. Qualitative Analysis and Blowpiping.
5. Qualitative Analysis of Minerals, &c., or *Urinalysis, &c.

Students are required to complete the first 25 introductory exercises in Noyes's Qualitative Analysis, and to hand in their note-books for inspection. This must be done before beginning the analysis of unknown substances.

Books:

Cohen's Practical Organic Chemistry for advanced students (Macmillan & Co., London).
Simon's Physiological Chemistry (Lea Brothers & Co., Philadelphia).
Williams' Crystallography (Henry Holt & Co.)
Arthur A. Noyes's qualitative Analysis (The Macmillan Co., N. Y.)
Thorp's Industrial Chemistry (The Macmillan Co., N. Y.)

Syllabus of Industrial Chemistry.

Lixiviation, Levigation, Evaporation, Distillation, Sublimation, Filtration, Crystallization, Calcination, Refrigeration, Density, Water, Sulphur, Sulphuric Acid, Salt, Hydrochloric Acid and Sodium Sulphate, Soda, Chlorine, Fertilizers, Lime, Cement, and Plaster of Paris, Phosphorus, Arsenic Compounds, Sulphates, Pigments, Petroleum.

Nitric Acid, Ammonia, Potash, Glass, Ceramics, Bromine, Iodine, Water Glass, Peroxides, Oxygen, Cyanides, Carbon Bi-sulphide, Carbon Tetrachloride, Manganates and Permanganates, Destructive Distillation of Wood, Illuminating Gas, Coal Tar, Vegetable and Animal Oils, Soap, Candles, Glycerine, Starch Dextrine and Glucose, Cane Sugar, Fermentation Industries, Explosives, Textile Industries (Bleaching and Dyeing), Paper.

Final.

6. Physical Chemistry: Kinetic Theory of Gases; Proprties of Solutions; The Periodic Law; Thermochemistry; Electrochemistry; Photochemistry.
   Friday at 3 p.m. (First Term), and Wednesday and Friday at 3 p.m. (Second Term).
7. History of Chemistry.
   Tuesday at 3 p.m. (Second Term).
8. Quantitative Analysis.
9. Assaying.
   Subjects (1), (2) and (3) must be taken at one examination, but may be taken without (4) and (5).

*This option is for students who intend to take a course in Medicine.

Subjects (6) and (7) must be taken at one examination, but may be taken without (8) and (9).

Books:

Walker's Physical Chemistry (Macmillan & Co.)
Ostwald's General Chemistry (Macmillan & Co.)
Meyer's Modern Theories of Chemistry.
Ladenburg's History of Chemistry (W. F. Clay, Edinburgh).
Rodwell's Birth of Chemistry (Macmillan & Co.)
Bolton's Quantitative Analysis (J. Wiley & Sons).
Furman's Manual of Assaying (J. Wiley & Sons).
Waddell's Arithmetic of Chemistry (The Macmillan Co.)

Syllabus of Quantitative Analysis and Assaying.

1. Barium Chloride—Ba, Cl, H_2O
2. Magnesium Sulphate—Mg O
3. An Ammonium Salt—N H_3
4. A Phosphate—P_2 O_5
5. Dolomite—CaO, Mg O, SiO_2, Fe_2 O_3, C O_2
6. Coal—water, volatile matter, fixed carbon, ash
7. Bleaching Powder—available chlorine
8. Iron Ore—qualitative analysis; determination of Fe, SiO_2, S
9. Pig iron—Si, P, Mn, C
10. Zinc ore – Zn
11. Lead ore – Pb
12. Copper ore—Cu by electrolytic and cyanide methods
13. Nickel ore—Ni by electrolytic methods
14. Silver Coin—Ag by Cupellation.
15. Pig Lead—Ag and Au.
16. Gold and Silver Ores Au and Ag by pot assay.
17. Silver ore—Ag by blowpipe assay.
18. Barite—BaO, SrO, S O_3
19. Bronze—Cu, Sn, Zn
20. Alkalimetry—
21. Acidmetry—
22. Chrome iron ore Cr_2 O_3
23. Feldspar—SiO_2, AlO_3, CaO, MgO, K_2 O, Na_2 O,
24. Titaniferous iron ore—TiO_2, Fe, SiO_2, S, P, MnO, CaO, Mg O
25. Arsenopyrite—As

For Extra-mural Students.

Tutors are appointed to give assistance by correspondence to Extra-mural students taking classes in Chemistry, Mineralogy and Geology. The tutorial fee for any one of the three subjects is $5.00. The fees are to be paid by all the Extra-mural students taking these subjects. Assistance is given in both the practical and theoretical part of the subject.

Extra-mural students are required to do promptly the work set by the Tutor and will not be admitted to examination until this work is completed.

JUNIOR.

Books to be read:

Walker's Elementary Inorganic Chemistry (G. Bell & Sons, (London).

Newell's Descriptive Chemistry (D. C. Heath & Co., Boston.)

Waddell's Arithmetic of Chemistry (The Macmillan Co., New York), Chapters I-IV.

SENIOR.

Books to be read:

Van Deventer's Physical Chemistry (J. Wiley & Son, New York).

Waddell's Arithmetic of Chemistry, Chap. VI to end.

Cohen's Theoretical Organic Chemistry (Macmillan & Co.)

Richter's Inorganic Chemistry (P. Blakiston's Son & Co.,) Philadelphia). (Chapters on Metals).

The work in *Cohen* and *Richter* is to be selected under the guidance of the Tutor.

For Students in Medicine.

First Year.

Monday and Tuesday at 11 a.m., and Thursday, 11 a.m. to 12.30 p.m.

The Lectures of the Junior Arts Class with Laboratory practice.

Second Year.

Thursday and Friday, at 11 a.m.

Chemical Laws and Theories, and Organic Chemistry (Senior Arts Class.

Analytical Chemistry.

N.B.—Before taking this class students must pass the examination in Junior Chemistry.

First Term.—Saturday, 9 a.m. to 11 a.m. or 11 a.m. to 1 p.m.

Systematic Testing of Chemical Substances.

Chemical Toxicology.

Second Term.—Saturday, 9 a.m. to 11 a.m. or 11 a.m. to 1 p.m.

Urinalysis.

Physiological Chemistry.

Analysis of Milk and Water.

Books:

Walker's Elementary Inorganic Chemistry (G. Bell & Sons, London).
Newell's Descriptive Chemistry (D. C. Heath & Co., Boston).
Waddell's Arithmetic of Chemistry.
Simon's Manual of Chemistry (Lea Brothers & Co., Philadelphia).
Irish's Qualitative Analysis.
The Urine, the Common Poisons and the Milk, by Professor J. W. Holland.
Leffman & Beam's Water Analysis.

Junior, Senior and Preliminary Honours of the Arts course cover all the Chemistry required of students of Medicine.

MINERALOGY.

(Ontario Hall, third floor.)

PROFESSOR—William Nicol, M.A.
LECTURER—M. B. Baker, B.A., B.Sc.

Students in Mineralogy are expected to take part in the field excursions held during the Fall Term. The cost of the field work will not exceed five dollars.

Pass and Preliminary Honours may be taken in one year by students in Honours.

Students intending to take Mineralogy are advised to take Junior Chemistry and Junior Physics before commencing it.

In addition to essays and correspondence, extra-mural students are required to determine and describe the minerals in collections furnished by the lecturer.

For extra-mural students a collection of wooden crystal models may be obtained for two weeks by depositing five dollars with the Registrar, to be refunded when the models are returned.

Each student in this department is supplied with a locked cabinet containing about 100 mineral specimens for which a cash deposit of ten dollars must be made and a receipt given, and an agreement made to return the minerals at the close of the session.

Examinations are held only at the University.

One of the rooms in connection with the Department of Mineralogy has been furnished as a study and consulting room for students in this department. The Professor or his assistant will be available for consultation at hours when classes are not being held. Systematic and illustrative collections of minerals, crystals and models are on exhibition.

The Department is furnished with a first-class lantern and projection apparatus.

Books from the Library of the Department of Mineralogy and from the Professor's private library may be obtained by application to the Professor.

MINERALOGY I.

Pass.

1. Elementary Mineralogy.
2. Description and determination of the following minerals:

Diamond, graphite, native arsenic, native silver, native gold, native copper, stibnite, molybdenite, cinnabar, galenite, chalcocite, malachite, azurite, sphalerite, niccolite, smaltite, chloanthite, pyrrhotite, bornite, chalcopyrite, pyrite, marcasite, arsenopyrite, halite, fluorite, quartz and prin, vars, corundum, hæmatite, magnetite, chromite, pyrolusite, psilomelane, limonite, calcite, dolomite, siderite, orthoclase, plagioclase, pyroxene and vars, olivine, amphibole and vars, garnet, tourmaline, stilbite, analcite, natrolite, muscovite, biotite, serpentine, talc, sphene, zircon, staurolite, apatite, barite, celestite, gypsum, coal and vars.

Text-book: Miller's Minerals and How They Occur

The class meets in the Mineralogy lecture-room, Ontario Hall, at 9 a.m., on Mondays.

3. Elementary Crystallography.

A course of fifteen lectures delivered at the opening of the session.

Text-book: Williams' Crystallography (Henry Holt & Co).

4. Blowpipe Analysis—(*a*) A course of practical demonstrations to illustrate and explain the reactions in studying the chemical properties of minerals. (*b*) A practical class in which the experiments seen in the lectures are performed by the students.

Text-book: Brush & Penfield's Determinative Mineralogy and Blowpipe Analysis, 1905.

Books for Reference:

Cornwall's Translation of Plattner's Manual of Qualitative and Quantitative Analysis with the Blowpipe, 7th Ed. (Van Nostrand Co.)

Cornwall's Manual of Blowpipe Analysis (Van Nostrand Co.)
Landauer's Blowpipe Analysis.
Endlich's Manual of Qualitative Blowpipe Analysis.
Moses & Parsons' Mineralogy, Crystallography and Blowpipe Analysis, 2nd Ed.

Students must supply their own blowpipe apparatus.

The class meets in the blowpipe lecture-room, Ontario Hall, on Friday afternoons, from 1 to 3 o'clock.

Honours.

Preliminary.

(A knowledge of German is desirable.)

1. Systematic Mineralogy, illustrated by specimens, charts, lantern-slides, etc. Monday, 2 p.m.; Wednesday, 11 a.m., and Practical Class at hours convenient for members.

Text-book: Dana's Text-book of Mineralogy, 1905. (Wiley & Sons).

Books for Reference:

Moses' characters of crystals, 1899.
Miers' Mineralogy (Macmillan & Co.)
Van Horn's General and Special Mineralogy.
Naumann-Zirkel's *Mineralogie.*
Tschermak's *Mineralogie.*

2. Practical Crystallography.
   Practical study of crystal forms by means of crystals, and wire and wooden models. Two demonstrations per week are given at hours to suit the members of the class.
3. Qualitative analysis of minerals by blowpipe and wet reagents:—The course in Qualitative Analysis in connection with Preliminary Honour Chemistry and, in addition, the analysis of selected mineral samples to be secured by the students individually from the Professor. Written reports of these must be handed in.

   Lectures on Qualitative Analysis.

Text-book: Fresenius' Qualitative Analysis.

Books for Reference:

Ostwald's Foundations of Analytical Chemistry (Macmillan & Co.)
Menschutkin's Analytical Chemistry (Macmillan & Co.)

4. Essays on prescribed subjects.

Final.

1. Descriptive Mineralogy.
   Description and classification of the commonly occurring minerals, special attention being given to Canadian ores and rock-forming minerals. Monday, 1 p.m. Attendance compulsory.

Text-Book: Dana's System of Mineralogy, 6th Ed. (Wiley & Sons).

Books for Reference:

Chapman's Minerals and Geology of Ontario and Quebec, 3rd Ed. (Copp Clark Co.)
Commissioners' Report on Mineral Resources of Ontario, 1890.

Reports of Geological Survey. New series 1885-1904.
Reports of Bureau of Mines.
Foote's Catalogue of Minerals.

2. Determinative Mineralogy.
Practical instruction in the determination of minerals by means of the blowpipe and by field tests. Tuesday, 1-3 p.m.
Examination of specimens from cabinets. Wednesday and Thursday, 1 p.m. Attendance compulsory.

Text-books: Brush & Penfield's Manual of Determinative Mineralogy and Blowpipe Analysis (1905).
Crosby's Tables for the Determination of Common Minerals.
Eakle's Mineral Tables.

3. Quantitative Analysis of Minerals, (selected samples).

Text-book: Fresenius' Quantitative Analysis.
Lectures on Quantitative Analysis.

4. Economic Geology. (See under *Geology*.)

5. Petrography. (See under *Geology*.)

6. The use of heavy solutions in separating minerals for rock analysis.

7. Use of Contact and Reflecting Goniometer.

8. Drawing Crystals from Goniometric Measurements.

9. Courses of lectures on Economic Mineralogy and Historic Mineralogy. These lectures will be illustrated by lantern-slides, and will be delivered at hours convenient for the members of the class.

10. Essays to be handed in as follows:
Oct. 31, 1906—Petroleum in Ontario.
Nov. 30, 1906—Nickel in Ontario.
Dec. 15, 1906—Gypsum in Ontario.
Jan. 31, 1907.—Silver in New Ontario.
Feb. 28, 1907—Sir Wm. Dawson.
Mar. 25, 1907—Talc in Ontario.

Books for Reference:

The Mineral Industry.
Reports of Bureau of Mines, 1891-1905.
Transactions of Canadian Mining Institute.
American Journal of Science.
Wilmott's *Mineral Wealth of Canada.*

Books for Reading:

Hugh Miller's Works.
Lyell's Principles of Geology.

The Professor reserves the right to retain essays of merit for use in the library of the department.

GEOLOGY.

PROFESSOR—Willet G. Miller, M.A., F.G.S.A.

ACTING-PROFESSOR—R. W. Brock, M.A., F.G.S.A.

LECTURER—M. B. Baker, B.A., B.Sc.

Students taking work in this department have access to the Geological and Mineralogical museum of Queen's University and the School of Mining, and to the Geological library and reading room.

The petrographical laboratory is supplied with electric power, diamond saws and other apparatus required in the preparation of thin sections of rocks and minerals for examination under the microscope.

The microscope room is provided with several instruments of the latest and most approved designs.

The chemical laboratory in connection with the Geological Department is to be supplied with the necessary equipment for the chemical investigation of rocks.

A corresponding tutor has been appointed to communicate with extra-mural students.

Pass

(Students taking Geology, who have not or are not taking Pass Mineralogy, are requested to attend the brief course of lectures on minerals delivered specially for Geology students.

The following themes will be treated of in the lectures: The planetary relations of the earth; the atmosphere; water; solid crust; probable nature of the earth's interior; rocks; their general megascopic and microscopic characters and classification; volcanic action; earthquakes; upheaval; subsidence; geological effects produced by heat, air, water and life; bosses; dykes; veins; stratification; dip; strike; anticline and syncline; faults; foliation; nature and uses of fossils; stratigraphical geology; outline of geological history; economic geology, etc.

The lectures are illustrated by means of maps, diagrams and lantern views.

The laboratory work will consist of the examination of typical specimens of the different groups of fossil

plants and animals, and of hand specimens of the more common rocks.

During the months of October and November excursions will be made to places of geological interest in the vicinity of Kingston. All students are expected to join these excursions. The cost will not exceed five dollars.

Essays required on prescribed subjects.

Students are expected to provide themselves with some elementary book on the subject. W. B. Scott's "Introduction to Geology," (the MacMillan Co., price $1.90) is recommended.

Books for Reference:

Dana's Manual of Geology.
Le Conte's Elements of Geology (5th Ed. by H. E. Fairchild).
Chapman's Minerals and Geology of Central Canada.
Kemp's Hand-book of Rocks.

Extra-mural students are advised to read Le Conte's Elements of Geology (5th edition), or Geikie's text-book af Geology (4th edition). They will also be required to write essays on prescribed subjects. A fee of $3.00 is required for the Pass Class.

Students who are not taking Mineralogy are advised to pay particular attention to Chapter I of Scott's Geology, and to provide themselves with a collection of the principal rock-forming minerals.

HONOURS.

Preliminary.

(Students taking Preliminary Honour Geology are required to take or to have taken Crystallography).

Lectures on:

Physical Geography, Petrography and Palæontology, Economic Geology.

The laboratory work will consist of the preparation of thin sections of minerals and rocks and their microscopic determination.

The museum work will consist of the megascopic determination of rocks and the naming and classification of Canadian fossils.

Field work. Essays are required on prescribed subjects. Candidates will also be examined on the following:

Davis', Page's or Geikie's Physical Geography.
Chapman's Minerals and Geology of Central Canada, Part IV.
Dana's Manual of Geology.
Luquer's Minerals in Rock Sections.
Kemp's Hand-book of Rocks.

Books for Reference:

Wood's Elementary Palæontology.
Harker's Petrology for Students.
Dana's Text-book of Mineralogy.
Cole's Aids in Practical Geology.

Students are advised to devote as much time as possible to field work during the preceeding long vacation, and to collect material for study in the laboratory during the winter. Opportunities are usually afforded advanced students for engaging in field work during the summer vacation.

Final.

Lectures on:

Petrography.
Palæontology.
Geology of Canada.
Geology in its relations to Mining and Agriculture.
Construction of Geological Maps and Sections.
Laboratory, Museum and Field work.

Candidates will also be examined on the following:

Geikie's Text-book of Geology (4th Edition).
Geikie's Field Geology.
Chapman's Minerals and Geology of Central Canada, Parts IV and V.
Dawson's Hand-book of Canadian Geology.
Geikie's Founders of Geology.
Zittel's History of Geology.
Branner & Newson's Syllabus of Economic Geology.
Kemp's Ore Deposits of the United States and Canada.

Books for Reference:

Rosenbusch's Elemente der Gesteinslehre.
Rosenbusch's Microscopical Physiography of Rock-forming Minerals.
Zirkel's *Petrographie,* Vols. I, II and III.
Harker's Petrology for Students.
Nicholson's Palæontology. (Eastman).
Zittel's Text of Palæontology, (Eastman).
Williams' Geological Biology.
Dawson's Ice Age in Canada.
Wright's Ice Age in North America.
Phillips' Ore Deposits.
Beck's Lehre von den Erzlagerstätten.

Students are advised not to undertake the work in Final Honour Geology until they have acquired a sufficient knowledge of Chemistry and Mineralogy. They should be prepared to devote a large part of their time to the subject throughout the session. Each member of the class will be encouraged to undertake research work, for which the surrounding district offers exceptional opportunities.

ART. XI—POST-GRADUATE DEGREES.

Doctor of Laws (LL.D.)

This degree is honorary, and is awarded for literary, scientific or professional distinction.

DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.) AND DOCTOR OF SCIENCE (D.Sc.)

1. Candidates for these degrees must comply with one of the following conditions:

(1) If they offer themselves for the degree of Ph.D. or D.Sc. in any two of the Arts subjects they must previously have taken the degree of M.A. in these subjects, or must satisfy the Senate of their ability to proceed with the course.

(2) If they offer themselves for the degree of Ph.D. in one of the Arts subjects and either Old Testament Language and Literature or New Testament Language and Literature they must have previously obtained the degree of M.A. or B.A. with first-class honours in the Arts subjects chosen, have completed their course in Theology, and have passed the examination in half of the course for B.D.

(3) If they offer themselves for the degree of Ph.D. in Old Testament Language and Literature and New Testament Language and Literature they must have previously taken an Arts degree and the degree of B.D.

(4) Neither of these degrees can be obtained in less time than three years after the above conditions have been complied with.

(5) Candidates for these degrees must make application through the Registrar to the Senate to be allowed to proceed with the course, stating the subjects they wish to offer and must register either as an intra or extra-mural

student each session in which work is taken. For fees of intra-mural students see page 21, for extra-mural, 55. Extra-mural students in addition to the registration fee must pay a tutorial fee of $5 per session for each subject.

I. Degree of Ph.D.

Latin.

The Ph.D. course in Latin is a continuation of the Honour work. It comprises a paper in sight translation and composition, a knowledge of Roman History and Literature from 88 B.C.—37 A.D., a linguistic, critical and exegetic knowledge of certain selected authors, and a course in *one* of the following:

Comparative Philology, Archaeology or Palaeography (including Epigraphy). These different branches can be taken at different times according to arrangements.

Greek.

The Ph. D. work in Greek is a continuation of the Honour course. Papers will be set on selected books and candidates will be tested on translation at sight and Greek prose composition. A knowledge of Greek history in the fifth century B.C., based on the original authorities, Herodotus, Thucydides and Xenophon's *Hellenics,* I and II, will be required. One of the following subjects is also included:

Comparative Philology.
Archaeology.
Palaeography (with Epigraphy).

German.

For the degree of Doctor of Philosophy in German there will be required:

1. A general knowledge of the history of the literature.
2. A general knowledge of the history of the language.
3. Accuracy and facility in writing and speaking German.
4. An intimate acquaintance with Gothic, Old High German and Middle High German Texts.

5. An intimate knowledge of the literary works of Lessing, Goethe and Schiller.
6. An intimate knowledge of any representative author of the 19th century since the death of Goethe.
7. A dissertation in German showing originality of treatment.
8. A minute acquaintance of the period within which the dissertation lies.

Romance Languages:

The Ph. D work is meant to be a continuation, along broader lines, of the Honour work. Besides the Thesis papers will be set testing the candidate's ability to translate unseen passages and to write French Prose, as well as his knowledge of the following set subjects.

1. The History of French Literature, during any three of the following periods:
   (*a*) Till the end of the 15th Century.
   (*b*) The Age of Glory.
   (*c*) The 18th Century taken especially in connection with the social and political conditions of the country.
   (*d*) The 19th Century.
2. Certain prescribed authors.
3. The Philology of the Language.
4. Italian *or* the Comparative Philology of the Romance Languages.

For further information consult the current Calendar and write to Professor Campbell.

English Language and Literature.

Candidates offering this subject will communicate with Prof. Cappon.

History.

1. The History of England.

Continuous Constitutional History.
Continuous Political History.
A selected Period to be studied in detail from the original authorities.

2. A period of general history to be studied in detail from original authorities.

3. The literature of the special periods selected.

The books on the constitutional history of England to be studied are:—

Stubb's Constitutional History and Select Charters.
Hallman's Constitutional History.
May's Constitutional History.

Periods for detailed study.

English History.	General History
449-1066	493-1095
1066-1272	1095-1273
1272-1485	1273-1530
1485-1603	1530-1648
1603-1714	1648-1788
1714-1880	1788-1880

Candidates are required to take the special periods most nearly corresponding with each other in English and general history, and in studying the selected periods they are expected to make themselves acquainted with their social and literary history.

Candidates are requested to put themselves in communication with Professor Ferguson, who will prescribe the authorities to be consulted.

Mental and Moral Philosophy.

I. General Course.

(A) Philosophical Systems.

Candidates are allowed the following options:

1. They may offer any *four* of the following books:—

Plato: Theætetus, Republic, Sophist.
Aristotle: Organon (Selections of Oxford Press), Metaphysics (Selections), De Anima, Nichomachean Ethics, Politics, Poetics.
Kant: Kritik der reinen Vernunft, Kritik der praktischen Vernunft, Kritik der Urtheilskraft.
Hegel: Encyclopüdie, I and III, Wissenschaft der Logik, I and III, Phänomenologie des Geistes, Philosophie des Rechts, Philosophe der Religion.
Ability to translate books offered is presumed.

2. They may offer any *two* of the above books, together with either (*a*) the works of any *one* of the following authors: Rousseau, Comte, Schopenhauer, Lotze, Hartmann, John Stuart Mill, Herbert Spencer, T. H.

Green, Henry Sidgwick, or (*b*) one of the sections under B.

3. They may offer (1) any *two* of the authors mentioned above in Section 2 (*a*), or (2) one of these authors, together with *one* of the sections under B.

4. Candidates who take the examination for Ph.D. in Latin, Greek, French, German, English, History or Political Science, may offer either (1) any *two* of the books mentioned above in Section 1, or (2) the works of any *one* of the authors mentioned in Section 2 (*a*), or (3) one of the sections under B.

Acquaintance with the best recent criticism is in all cases required.

(B) Principles of Philosophy.

The following branches of Philosophy may form part of the work offered by candidates (See A., Sections 2, 3 and 4):

1. The principle of logic. References: The logical treatises of Hegel, Mill, Jevons, Venn, Lotze, Bradley and Bosanquet.

2. The Principles of Psychology. References: The psychological works of James Mill, J. S. Mill, Bain, Wundt, Sully, Ladd, James, Admanson and Lotze.

3. The Principles of Ethics. References: The ethical works of J. S. Mill, Bain, Sidgwick, Green, Bradley, Spencer, Stephen and Martineau.

4. The Principle of Aesthetics. References: The æsthetic treatises of Aristotle, Kant, Schiller, Lessing, Hegel, Lotze, Schasler, and Ruskin.

Political Science.

Candidates offring this subject will communicate with Professor Shortt.

The Degree of Ph.D. in O. and N.T. Language and Literature.

1. Candidates must take note that the amount and quality of the work demanded for this degree will, in the judgment of the Faculty, require three years post-graduate work at the University, or five or six years extra-mural work.

2. Candidates must, at an early date in the course of study for the degree, give notice to the Professors of the department concerned of the subject they have selected for a thesis.

Old Testament Language and Literature.

The candidate will be required to show to the Examiners, by means of critical essays and examination papers, that he possesses comprehensive and accurate knowledge in the following departments:

(1) Languages; Hebrew and Aramaic.

(2) History; the history of Israel to the year 141 B.C. Outline of the history of Egypt and Babylon, in so far as these bear on the history of Israel.

(3) Literature; the contents and character of the books of the O. T. and of the following books:—Ecclesiasticus, Maccabees, I and II; Esdras, I and II; Baruch, Tobit, the additions to Daniel.

(4) O. T. Theology or history of the Hebrew religion down to 141 B.C.

(5) Criticism, textual, literary and historical. In this department papers will be set on books, or portions of books, representing all classes of Hebrew Literature, historical, poetic, prophetic, etc. The quantity of this work will be arranged with each candidate after consultation with the Professors involved in his course. A list of

books and suggestions as to methods of work may be had on application to Prof. W. G. Jordan.

New Testament Language and Literature.

The candidate must give evidence, by means of critical essays and examination papers, that he possesses comprehensive and accurate knowledge in the following departments:

(1) The Language of the Greek New Testament.

(2) History; Jewish and General History from the time of Alexander the Great to the end of the first Century.

(3) Literature; the Literature of the later Judaism, Palestinian and Alexandrian.

(4) Theology; the Theology of the entire New Testament.

(5) Criticism and Exegesis; Textual, literary and historical criticism. In this Department certain books of the New Testament will be selected for special study.

Candidates will communicate with the Professors for detailed information regarding the books required for Sections 1, 3, 4 and 5.

II. Special Course for Teachers.

1. Candidates must hold (a) a certificate as School Inspector, or (b) a permanent First Class or High School Assistant's Certificate, or their equivalent.

2. They must submit certificates of successful experience as Teachers or School Inspectors.

Subjects of Examination.

A. (*a*) Any *two* of the books mentioned in A, 1, of the "General Course," or (*b*) any *one* of the authors mentioned in A, 2 (*a*), or (*c*) any *one* of the section under B, except Section 2, or (*d*) the examination for Ph.D. in Latin, Greek, German, Romance Languages, English, History or Political Science.

B. Psychology.
Wundt's Physiological Psychology.
James' Principles of Psychology.
Ward's "Psychology" in Encyclopædia Britannica.
Stout's Manual of Psychology and Analytical Psychology.
Adamson's Lectures on Psychology (Works Vol. II.)

C. History and Science of Education.
Bosanquet's Education of the Young in the Republic of Plato.
Burnet's Aristotle on Education.
Bacon's Advancement of Learning.
Laurie's Comenius.
Rousseau's Emile.
Pestalozzi's Leonard and Gertrude (Channing).
De Garbo's Herbart and the Herbartians.
Hinsdale's Horace Mann.
Froebel's Education of Man (Hailman).
Sir J. G. Fitch's Thomas and Matthew Arnold.
Compayre's Educational Systems of Great Britain and Ireland.
J. E. Russell's The German Higher Schools.
Rosenkranz' Philosophy of Education.
Harris' Psychologic Foundations of Education.
Nüsterberg's Psychology and Life.
Dewey's School and Society.
The chief recent Educational Reports.

II. Degree of D.Sc.

I. Course for the Degree of D.Sc. in Chemistry, Mineralogy, Botany and Geology.

Candidates are required to have a thorough knowledge, practical and theoretical, of the subjects in one of the following divisions:

1. Chemistry—one of the following groups:

A. Inorganic Chemistry.
Chemistry in its relations to Mineralogy.
Inorganic Analysis and Assaying.

B. Organic Chemistry.
Chemistry in its relation to Biology.
Organic Analysis.

C. General Chemistry, including Chemical Theory in relation to Physics.

2. Mineralogy:

(1) Systematic Mineralogy.
(2) Mineralogy in its relation to Chemistry and Geology.

(3) Petrography.
(4) Ore Deposits.
(5) Determinative Mineralogy.
(6) Assaying.
(7) Economic Mineralogy of Canada.

3. Biology:

Comparative Anatomy and Physiology, Chemistry of Ferments, Bacteriology, with either of the following groups:

I. (1) Special Studies in Vegetable Histology and Physiology.
(2) A practical acquaintance with the Cryptogamic Flora of Canada.

II. (1) Animal Physiology and Embryology.
(2) Osteology and Odontography of Vertebrates.
(3) Special Study of Invertebrates (Canadian).
(4) Physiological Chemistry.
A thesis containing original work done in one of these subjects.

4. Geology:

Standing equivalent to Preliminary Honours in Chemistry and Mineralogy will be required of candidates in this department.

Either of the following groups may be chosen by a candidate as his *chief subject,* and he will be required to take the other group as a *subordinate subject*:

(1) Dynamical Geology and Petography.
(2) Stratigraphical Geology and Plæontology.

The candidate will be expected to show an acquaintance with his subordinate subject equivalent to Honours in the undergraduate course. An intimate knowledge of the chief subject must be shown.

Detailed information to be obtained from the Professors.

FACULTY OF THEOLOGY.

(*I*) *General Announcement.*

The course in Theology extends over three sessions of six months each, and embraces the following subjects of study: Apologetics, two sessions, Systematic Theology, Old and New Testament Criticism and Exegesis, Church History, each three sessions; Homiletics and Pastoral Theology, each one session. Junior Hebrew and Senior Hebrew, each one session, for those who have not included them in their Arts course.

2. The student who desires to enter upon the study of Theology must be a graduate of this University or of a University whose degrees are recognized by the Senate; or he must have completed three years of a university course, as enjoined by the General Assembly.

3. Students are expected to have passed the Junior Hebrew class, and are recommended to take a full course in Arts, and to obtain a degree, before entering upon the study of Theology.

An Arts course, as here recognized, must embrace the study of Greek.

4. Students on entering Theology, or on intimating their purpose to study for the ministry, must be in full communion with the Church; and all such students are required, during their course, to be in communion with a congregation of the Church in Kingston.

5. At the beginning of each session each student must present a certificate to the Secretary of the Faculty from the Presbytery within whose bounds he has resided during the summer vacation; and at the close of each session he shall, at the earliest opportunity, present his certificate

to the Presbytery within whose bounds he purposes to reside.

6. Testamurs in Theology are given to students who have passed the sessional examinations on all the subjects prescribed by the General Assembly for students for the ministry.

7. Pass and B.D. examinations are held annually in April and October, and supplementary examinations only in October.

8. For further information see Blue Book of the Church, or apply to Rev. Dr. Ross, Secretary of the Faculty.

(2) *Matriculation.*

Matriculation examinations begin on Thursday, Oct. 25th. Candidates must give notice to the Secretary of the Faculty before Oct. 10th.

Subjects of Examination:

Examination papers will be set in the following departments:—

1. The Shorter Catechism and the contents of the Epistles to Galatians and Romans, in English.
2. Acts of the Apostles, I-XII in Greek and Dods' Introduction, 76-151.
3. HEBREW—The Article, Pronouns, Inseparable Particles, the Qal of Regular Verb, Grammatical Analysis, Ps. I, I Sam IX. ENGLISH—Amos I, VII, Hos. I-II, Isaiah I, VI, VII, Micah I-III, Jordan's Prophetic Ideas and Ideals, pp. 108.
4. The Acts of the Apostles in the R.V., and Bartlet's Early Church History, pp. 1-66.

One paper will be set in each department.

I.—SYSTEMATIC THEOLOGY.

PROFESSOR—Principal Gordon, M.A., D.D.

The course in this class extends over three Sessions. Lectures will be given on:

The Person of our Lord. The Atonement.
The Work of the Holy Spirit.

Text-book: Van Oosterzee's *Christian Dogmatics.* Chapters III and IV.

NEW TESTAMENT THEOLOGY. The teaching of Paul.

Text-book: Stevens' *The Theology of the New Testament.* Part IV.

Pastoral Theology and Homiletics. In addition to the treatment of this subject by Principal Gordon, a special Course of lectures upon the Office and Work of the Christian Ministry will be given by the Rev. G. M. Milligan, D.D., L.L.D.

II.—HEBREW.

PROFESSOR—Rev. W. G. Jordan, B.A., D.D.

FELLOW—H. T. Wallace, B.A.

Junior Hebrew.

Davidson's Hebrew Grammar, the first twenty exercises, the Verb, pp. 162-182.

Psalm 1, Genesis I, I Samuel IX-XI.

Senior Hebrew.

Davidson's Grammar, exercises in paragraphs 23 to 38 inclusive, the Irregular Verbs.

Hebrew Syntax; the class lectures. Jonah, Hagg, Mal. & Zech. I-III.

III.—APOLOGETICS.

PROFESSOR—Rev. D. Ross, M.A., D.D.

The course in this class extends over two Sessions, and must be taken during either the first and second, or second and third years of the Theological curriculum.

Students who have already taken Honours in Philosophy are exempted from one year's attendance.

1. Lectures on Apologetics from the beginning of the 16th century.
2. Lectures on Fundamental Apologetics.
3. Examination of Bruce's Apologetics, Books I and II. Butler's Analogy, Part II.

IV.—O. T. CRITICISM EXEGESIS.

PROFESSOR—Rev. W. G. Jordan, B.A., D.D.

Exegesis. Selection from the Historical Books.
Criticism. The History of Israel.
Honour Course:

Hebrew. Selections from the Book of Judges.
Exercises in Davidson's Grammar, 38 to the end.
Syntax, the Hebrew tenses.
Daniel, specially the portions in Aramaic.
This course extends over two years.

V.—N. T. EXEGESIS AND CRITICISM.

PROFESSOR—Rev. D. Ross, M.A., D.D.

The course in this class extends over three Sessions. Students who have taken first or second class Honours in Greek are exempted from one year's attendance on the Pass class, but must during that year take the Honour N. T. class.

Epistles to the Eph., Phil., Col. and the Pastoral Epp.
Commentaries: Expositor's Greek Testament. The International Critical Commentaries, Ellicott's Pastoral Epp.
Kenyon's Textual Criticism, Burton's N. T. Moods and Tenses.
Lectures on Introduction and Criticism.

VI.—CHURCH HISTORY AND HISTORY OF DOGMA.

PROFESSOR—John Macnaughton, M.A.

Lectures on Christian Thought and Life in the first three Centuries.
Fisher's History of the Reformation.

HONOUR COURSE.

Lectures on the Apostolic Fathers, edited by Lightfoot.
Lectures on Gwatkin's Selections from early Christian writers.

Classes open to Theological students who have an elementary knowledge of the German language, are conducted by Professors Macnaughton and Jordan. The text-books for 1905-6 are Spitta's Die Offenbarung des Johannes and Marti's Geschichte der Israelitischen Religion.

VII.—ENGLISH BIBLE.

LECTURERS—Principal Gordon, D.D., Professor Macnaughton, M.A.

The course in this class extends over two Sessions, and is intended to cover the whole Bible.

O. T. Part I. The Pentateuch, early history and histories of the Divided Kingdom down to the time of the writing Prophets.
N. T. Part I. The Gospels.

The Church requires the following discourses to be delivered during the course:—Homily, Lecture and Greek Critical Exercise, Sermon and Hebrew Critical Exercise.

Pass Examination.

On the work of the session.

Degree of Bachelor of Divinity.

REGULATIONS.

1. Candidates for the Degree of Bachelor of Divinity, (B.D.), must be graduates in Arts in this University, or of a University whose degrees are recognized by the Senate, and must follow the prescribed order of classes in Theology.

2. The degree shall not be conferred until the candidate has completed the theological curriculum, with a view to the ministry in the church to which he belongs, and has passed a satisfactory examination in the branches of Theology taught in the University.

3. The divisions of the examinations shall be (1) The Holy Scriptures. Candidates will be expected to show a competent knowledge of the contents of the Old and the New Testaments, and to show special acquaintance with at least one book from the O. T. and one from the N. T. The Revised Version should be used. This division is compulsory on all candidates. Any two of the following may be taken in addition: (2) O. T. Criticism and Introduction, Hebrew and Aramaic. (3) N. T. Criticism, Exegesis and Introduction. (4) Systematic Theology. (5) Church History and History of Dogma. (6) Apologetics and Comparative Religion.

Two papers will be set in (1) and four papers in each of the other divisions.

4. Candidates who have completed the Theological course may be examined in all the subjects, or may defer their examination in any subject.

5. Students may be admitted to examination in only one division at the end of the second session of their theological course.

6. A candidate may, subject to the preceding regulations, appear at any University examinations in Theology, provided he gives three weeks' notice of his intention to the Registrar and pays the examination fee.

Autumn examinations begin on Thursday, Oct. 25th. Candidates must give notice to the Secretary of the Faculty before Oct. 4th.

Subjects of Examination:

I. The Holy Scriptures. The contents of the Old and New Testaments generally with a special knowledge of Isaiah and St. Mark, in the Revised Version.

Books recommended:

Bennett's Primer of the Bible, or Kautzsch's Outlines of O. T. Literature.
Driver's Isaiah.
Menzies' The Earliest Gospel.

II. Hebrew and Aramaic. O. T. Introduction and Criticism.
(*a*) General Introduction to the O. T. Literature.
(*b*) Criticism and Exegesis. Parts of the Book of Judges etc.
(*c*) Aramaic, The Book of Daniel.

There are two papers in division (*b*) and one each in (*a*) and (*c*). Extra-mural candidates may substitute for (*c*) Gen. I-IV.

Books to be consulted:

Driver's Introduction, Bacon's Genesis of Genesis, Driver's Genesis, Davidson's Job, Cornill's History of Israel, Dillmann's Genesis, The Oxford Hexateuch, Bradley's Lectures on Job, Driver's Daniel, MacFayden's Messages of the Prophetic and Priestly Historians, H. P. Smith's O. T. History, Cheyne's Origin of the Psalter, Gunkel's Legends of Genesis.

Ryle's Ezra, Cambridge Bible, Skinner's Isaiah II, Driver's Isaiah, Cornill's Prophets of Israel.
Ryle's early Narratives of Genesis.
Duff's Abraham.
MacFayden's Introduction.
Jordan, Prophetic Ideas and Ideals.

III. N. T. Criticism, Exegesis and Introduction.

(*a*) 1. Canonics.
Westcott's History of the Canon of the N. T.
Charteris, Canonicity.

2. Textual Criticism, MSS. Versions and principal disputed passages.
Kenyon's Textual Criticism.
Westcott and Hort, Greek N. T. Introduction.

(*b*) Introduction, Salmon, Weiss, Gloag, Expositor's Greek Text, Vol. III, pp. 729-754. Vol. IV, pp. 123-148. Bigg's Com., pp. 24-67.

(*c*) Exegesis, Epp. I. Cor. Gal. I. Peter.
Commentaries: I. Cor. Edwards. Findlay in Expositors Gr. Test.; Gal. Lightfoot, Ellicott, Expositor's Gr. Test.; I Peter Bigg's, International Crit. Com.

(*d*) N. T. Greek; Burton's Syntax of the Moods and Tenses, pp. 73-129.
Blass' Grammar of N. T. Greek.

IV. Systematic Theology.

(*a*) The Christian Conception of God; Caird's Fundamental Ideas of Christianity, Van Ooosterzee's Christian Dogmatics, pp. 234-354.

(*b*) The Christian Doctrine of Sin; Tulloch, Muller Vol. I.

(*c*) The Atonement; McLeod Campbell, Dale, Lidgett.

(*d*) The Church; Hatch's Early Organization, Hort's Ecclesia.

V. Church History and History Dogma.

(*a*) Church History, Ante Nicene Period; Gwatkin's selections from early Christian Writers, and Lightfoot's Apostolic Fathers.

(*b*) History of Dogma.
The Development of Christian Thought in the first three Centuries.

Books to be consulted:

Neander's Church History, Vols. I, II; Ramsay's Church in the Roman Empire before A.D. 170, part II; Dorner's Doctrine of the Person of Christ, Vol. I; Forrest's Christ of History and Experience; Hooker's Laws of Ecclesiastical Polity, Book V, sections 50-57; Allen's Christian Institutions and Unity of Christian Thought.

VI. Apologetics and Comparative Religion.

(*a*) Philosophical and Historical.
Fraser: Philosophy of Theism. (Gifford Lectures.)

Caird's, The Evolution of Revolution of Religion.
Bruce : Apologetics.

(*b*) Comparative Religion.
Grant : The Religion of the World.
Menzies : History of Religion.

Benefactors have placed at the disposal of the Principal a few nominations, exempting from payment of class fees throughout the course in Arts, for intending students of Theology who have matriculated. Applications for these should be made to him or to the Registrar before Oct. 1st.

The Stewart bequest of $5,000 to the Theological Department will be administered by the Faculty in terms of the will.

FACULTY OF LAW. DEGREE OF LL.B.

1. This degree will not be conferred upon any undergraduate or upon any graduate in Arts of less than one year's standing.

2. Graduates who have taken the honour courses of this University in History and Political Science may proceed to the degree by passing on the following works:—

Commentaries of Gaius, Abdy and Walker.
Institutes of Justinian. Sandars.
Harris' Principles of Criminal Law. Also Canadian Criminal Code, with Amendments.
Maxwell's Interpretation of Statutes. Also interpretation Acts, in Revised Statutes of Canada and Ontario.
Westlake's Private International Law.
T. A. Walker's International Law.
O. W. Holmes' The Common Law.
Goodnow's Comparative Administrative Law.
Dicey's Law of the Constitut
Houston's Constitutional Documents of Canada.

3. Barristers-at-Law or persons who have been admitted as students-at-law by the Law Society of Upper Canada and have passed their second Intermediate Examination will be admitted to the degree by passing on the honour course of this University in History and Political Science, together with the works specified in section 2.

4. Graduates in Arts of this or any recognized University, being Barristers-at-Law, will be admitted to the degree by passing on the following works in addition to those specified in section 2:—

Bryce's American Commonwealth, Vol. I.
Stubb's Constitutional History of England.
Bagehot's English Constitution.
Bosanquet's Philosophical Theory of the State.
Holland's Elements of Jurisprudence.
Maine's Ancient Law.

5. Candidates are required to send notice to the Registrar, before the first day of March, of their intention to present themselves at any of the examinations.

FACULTY OF MEDICINE.

The period of study required for the degree of Doctor of Medicine is and always has been four years. Graduates in Arts who have taken in their Arts course the subjects of Physics, Chemistry and Biology, including Physiology and Histology, may complete the Medical curriculum in three years. There are also special courses, in connection with the Arts and Science departments, in which the degrees of B.A. and M.D. or B.Sc. and M.D. may be obtained in six years.

ADMISSION OF STUDENTS.

Candidates for a degree must pass the Medical Matriculation of the University unless (1) they possess a degree in Arts, not being an honorary degree, from any recognized University; or (2) have already matriculated in Arts in any recognized University; (3) have passed the Matriculation examination prescribed by the Medical Council of any Province in Canada.

The Matriculation Examination must have been passed before a student will be credited with any of the professional examinations, although lectures may be attended till the beginning of the second year before passing it.

No candidate will be allowed to compete for relative standing, prizes or scholarships, till he has completed the Matriculation Examination.

The Medical Matriculation is the Junior Arts Matriculation, but the optional subjects are not required.

CURRICULUM.

Undergraduates who are candidates for the degree of M.D., C.M., must complete a period of four years' study,

which must comprise three sessions of at least six months each, and one session of eight months. All students are, however, recommended to attend four full sessions of eight months each, as required by the regulations of the Ontario Medical Council and by those of many of the United States.

Regular attendance on full courses of instruction is required in the following departments.

SUBJECTS OF STUDY.

1st Year:—Physics, Animal Biology, Physiology, Histology, Anatomy, Chemistry, Practical Anatomy, Materia Medica.

2nd Year:—Anatomy, Materia Medica, Practical Pharmacy, Chemistry—Theoretical, Chemistry, Analytical, Practical Anatomy, Physiology, Histology, Embryology.

3rd Year:—Practice of Medicine, Clinical Medicine, Therapeutics, Surgery, Clinical Surgery, Obstetrics, Gynæcology and Pædiatries, Jurisprudence, Pathology, Medical and Surgical Anatomy, Sanitary Science.

4th Year:—Practice of Medicine, Clinical Medicine, Surgery, Clinical Surgery, Obstetrics, and Gynæcology, Medical and Surgical Anatomy, Pathology and Bacteriology, Mental Diseases, Diseases of the Eye, Ear, Nose and Throat.

To meet the requirements of the Medical Council of Ontario and the General Medical Council of Great Britain, a fifth year course has been adopted as follows:

5th Year:—Operative Surgery on the Cadaver, Sectional Anatomy, Clinical Medicine (including Physical Diagnosis), Ophthalmology, Mental Diseases, Clinical Surgery, Diseases of Women, Diseases of Children, Practical Pathology and Bacteriology with special attention to the examination of urine, sputum, bile, stomach contents, etc.

The above course of study may have been pursued either wholly at Queen's, or partly at Queen's and partly at some other recognized medical school. In the latter case at least one full session must have been spent at this University.

Certificates of attendance on lectures are accepted from incorporated medical schools in the British Dominions and others recognized by British universities and licens-

ing bodies. Other certificates of attendance on lectures and examinations may be accepted at the discretion of the faculty.

Students who have passed the Senior Leaving examination in Zoology of the Education Department, will not be required to attend lectures on Animal Biology during their first Session.

All students must present certificates of having compounded medicine for a period of six months in the office of a regularly qualified medical practitioner; of having attended at least six cases of midwifery; of having reported six medical and six surgical cases; of having attended and reported on six post-mortem examinations; and of having attended hospital practice for at least twenty-four months, before being permitted to take their final examination.

Graduates in Arts who have attended during their course lectures, or taken practical instruction of the character or duration required by the curriculum in medicine, may obtain certified tickets of the course on payment of the ordinary fee demanded from students in Medicine, less the laboratory fee, paid during their Arts course.

Students in Arts or Science having the study of Medicine in view are recommended to take either of the following courses, as they may thus obtain their B.A. and M.D., or their B.Sc., and M.D. degrees in six years.

Course leading to B.A. and M.D. in six Years.

A.—1. Junior Latin.
2. Junior Greek.
3. Junior French.
4. Junior German.

} Any two.

B.—1. Junior and Senior English.
2. Junior Philosophy.
3. Junior Mathematics.

C.—1. Junior Physics and Junior Chemistry.
2. Animal Biology and Medical Botany.
3. Junior and Senior Materia Medica.
4. Junior and Senior Anatomy.
5. Senior Physiology and Histology.
6. Senior Chemistry.

D.—1. Preliminary Honour Chemistry.
2. Preliminary Honour Animal Biology.

Examination on Translation into French or German at the end of the second, third and fourth year.

The degree of B.A. is granted on the completion of the above course which is also equivalent to the completion of the second year in Medicine.

Preliminary Honour Animal Biology, D.—1, must be taken at least one session previously to attendance on Senior Physiology and Histology. C.—5; these latter being parts of the final honours.

Course leading to B.Sc. and M. D. in six years.

First Year	Math. I (8) Junior English (4) Physics I (5) Junior Chemistry (3) Drawing I (5) Surveying I (*b*) (1) Workshop I (5)
Second Year	Physics II. Senior Chemistry and Qual. Analysis. Mathematics II. Animal Biology. Pass Botany. Elementary Geology.
Third Year	Human Anatomy as for 1st Year Medical students. Preliminary Honours in Animal Biology. Quantitative Analysis (air, water, food). Hydraulic Engineering I (to be defined). Botany of Algae and Moulds, Bacteriology. Junior Materia Medica.
Fourth Year	Human Anatomy as for 2nd Year Medical students. Final Honours in Animal Biology. Municipal Engineering. Senior Materia Medica and Pharmacy. Pathology. Sanitary Science.

The degree of B.Sc. is granted on the completion of the above course which is equivalent to the completion of the second year in Medicine.

EXAMINATIONS AND GRADUATION.

Every candidate intending to appear at the Final examination must, on or before the 1st day of April (in the year in which he proposes to graduate), present to the Secretary a declaration under his own hand that he is twenty-one years of age, or that he will be so before the date of graduation, accompanied by a certificate of good moral character, and a statement of his medical studies, with proper certificates.

Every student must, on or before April 1st, notify the Secretary of the examination upon which he intends to write. For this purpose blank forms are supplied.

EXAMINATIONS.

Examinations are required at the end of every session as follows:—

At the end of the first session:

Anatomy, Animal Biology and Physiology, Theoretical Chemistry Physics*, Materia Medica.

At the end of the second session:

Anatomy, Physiology, Histologv. Materia Medica, and Practical Pharmacy, Chemistry—Theoretical and Analytical.*

At the end of the third session:

Practice of Medicine, Surgery, Therapeutics, Obstetrics, Pediatrics, Pathology, Jurisprudence, Medical and Surgical Anatomy, Sanitary Science.

At the end of the fourth session:

Practice of Medicine, Clinical Medicine, Surgery, Clinical Surgery, Obstetrics, Gynæcology, Medical and Surgical Anatomy, Pathology, Bacteriology,* Diseases of the Eye, Ear, Nose and Throat, and Mental Diseases, (Optional).

*Examinations on the subjects will be held on Dec. 19th, 1906.

On each senior paper the examiner may put pass and honour questions. Students desiring rank must answer both.

Supplementary examinations will be held in Convocation Hall, commencing September 19th, 1906, at 9 a.m.

Students who desire to take an honour course in Arts, and who have the study of Medicine in view, are advised to take, during their Arts course, the Honour subjects in Animal Biology, and thus complete part of the Practical Anatomy and all of

the Physiology and Histology of their Medical course. An Arts Degree along these lines shortens by one year the course of study required by the Medical Council of Ontario.

EQUIVALENT EXAMINATIONS.

The following courses and examinations in Arts wil be accepted in Medicine:—

1. Attendance on the Preliminary honour course and examination in first year Animal Biology and preliminary honours.
2. Attendance on the honour course and examination in second year Animal Biology, including Histology.
3. Course and examination in Junior Chemistry.
4. Course and examination in Senior Chemistry No. 3, and 1st honour No. 2. Arts Calendar.
5. Course and examination in 1st year honour Chemistry Nos. 1, 2 and 3.

1. Course and examination in first year Physiology and Animal Biology.
2. Course and examination in second year Physiology and Histology.
3. Course and examination in first year Chemistry.
4. Course and examination in second year Chemistry.
5. Course and examination in Senior Chemistry and in Analytical Chemistry.

FEES.

Marticulation Fee	$ 5 00
Registration Fee (for those taking partial courses) 1st yr.	5 00
Each year thereafter	2 00
Sessional Fee for each of the first four years	100 00

The Sessional Fee, including Classes, Registration, Athletics, Library, Examination, Laboratories, and the required amount of dissection material is $100 per session. If not paid in full before Nov. 1st, $105.00. Special arrangements will be made with those who do not take the full course in any year.

Fifth year	$ 50 00
Supplemental Examinations (each year)	10 00
Hospital Ticket,—full course, payable with second year fees.	25 00
Hospital Ticket,—one session	9 00
Ad eundem statum	10 00
Graduation.—M.D., C.M.	30 00
Exclusive use of Microscope per session	5 00

B.Sc. and M.D. Course.

First year	$ 55 00
Second year	55 00
Third year	60 00
Fourth year	65 00

Fifth and sixth years correspond to third and fourth years of M.D. course.

Graduation fees are payable to G. Y. Chown, B.A., Registrar of the University; all other fees to Dr. W. T. Connell, Secretary of the Faculty of Medicine.

The Calendar for the Medical Faculty can be had by applying to Dr. W. T. Connell, Secretary of the Faculty.

SCHOOL OF MINING.

Affiliated to the University.

The object of the School of Mining is to give a theoretical and practical education in applied science.

The complete course extends over four years and leads to the degree of B.Sc., but a diploma will be awarded to those who complete three years of any one of the courses and pass one the necessary examinations.

Admission.

A candidate may enter upon a course with a view to obtaining a diploma or the degree of B.Sc. upon any one of the following conditions:—

1. Having matriculated in any University in the British Empire or in the United States.

2. Having passed the Junior Leaving or Junior Matriculation Examination of the Department of Education of Ontario or equivalent examinations in any other Province, in English Grammar, Composition and Literature, Arithmetic, Algebra and Geometry, History of Great Britain and Canada, Physics and Chemistry. The matriculation examination may also be taken in Queen's University in September. Other examinations will be accepted, so far as they are equivalent.

NOTE—Equivalent examinations in the different Provinces are:—

Ontario	Jr. Leaving
Prince Edward Island	Second Class
Nova Scotia	Grade XI
New Brunswick	Second Class
Quebec	Academy Grade University School, A.A.
Manitoba	Second Class
North West Territories	Grade VII
British Columbia	Intermediate.

3. Candidates who offer for matriculation any conditions except(1) or (2) will forward to the Secretary, for the consideration of the Faculty, their applications accompanied by certificates and information.

Students are strongly urged to take the complete Matriculation Examination with the Modern Languages and Science option. (See page 24).

Special students may be admitted to such course of instruction as the Faculty may think proper.

The work is carried on partly in the University building and partly in the Mining School.

Courses of Study.

The following courses are offered:

1. Three years' course for a diploma. 2. Four years' course for the degree of Bachelor of Science (B.Sc.).

GROUP I.

(A) Mining Engineering.
(B) Chemistry and Mineralogy.
(C) Mineralogy and Geology.
(D) Chemical Engineering.

GROUP II.

(E) Civil Engineering.
(F) Mechanical Engineering.
(G) Electrical Engineering.

GROUP III.

(H) Biology and Public Health.

For further information see Calendar of the School of Mining, which will be forwarded on application to the Secretary, G. Y. Chown, Kingston, Ont.

EQUIPMENT.

The John Carruthers Science Hall was built in 1890 for the department of Chemistry. Part of the space is at present occupied by the departments of Mineralogy and Geology, for which a new building is in course of construction.

The practical work in chemistry is carried on in three laboratories: No. 1 for qualitative analysis, No. 2 for quantitative analysis, and No. 3 for experimentation in class, and drill on the subjects treated of in the junior lectures. No. 1 and 2 are fitted up with 62 and 42 locked work places, so that 104 students can be provided each with a set of apparatus under lock and key. No. 3 serves both as a laboratory and a class room. It is furnished with seats and desks which are at the same time work tables. Besides these larger laboratories there are smaller rooms devoted to special branches of analytical chemistry and to research.

The blowpipe laboratory is arranged to accommodate forty-eight students, working twenty-four at one time.

The assaying laboratory is furnished with the plant necessary for conducting assays of gold, silver, copper, iron, nickel, zinc and lead ores, by furnace, titration and electrolytic methods. With the various furnaces students are taught the use of hard coal, soft coal, coke, gasoline and illuminating gas as fuel. The laboratory is well supplied with ore-bins and samples of pulverized ore from the mining laboratory, so that practice may be had with a variety of ores. The mineral cabinets contain typical examples of the commonly occurring ores of the various metals treated in the course; these are used for illustrating the lectures which supplement the text-books used.

The mineralogical and crystallographic collections have been carefully made and arranged with a view to their use in teaching the subjects in a practical way. A special feature is the large number of sets of the commoner minerals for the daily use of the students, each of whom keeps his own set throughout the session.

The *petrographical laboratory* is supplied with electrical power and provided with diamond saws and other apparatus needed in the preparation of thin sections of minerals and rocks for examination with the microscope.

There are provided for the use of the students seven petrographical microscopes of the latest and most improved designs.

Laboratory facilities are also provided for microscopical tests, and for the use of heavy solutions in separating the constituents of the rocks.

The Engineering Department.

The work in engineering is practical as well as theoretical. The new Engineering building contains two laboratories for experimental work in hermodynamics and Mechanical Engineering, three laboratories for experimental work, in Electrical Engineering, and a laboratory for testing the strength of materials. In addition to these there is a large draughting room, a research laboratory and a room for surveying instruments.

The college buildings are lighted and heated from a central power plant which is connected with the Engineering building. This plant affords exceptional facilities for practical instruction.

The Mechanical Laboratory.

The mechanical laboratory consists of two departments, wood-working and metal-working. The wood-

working shop is 72 x 32 feet and is well lighted on both sides. The appliances are a jig-saw, a circular saw, and three wood-turning lathes, two with four feet beds, and the third with a six foot bed; benches 6 feet and 12 feet long, with accommodation for two persons at each bench, and all the necessary small tools. Students are given rough sketches with dimensions of the work in which they are to engage. They are then required to make working drawings to scale, with all details, and to work from their drawings. Accurate drawings and careful work is insisted upon.

The work for each student begins with dressing wood to size and putting together by various joints. After some skill has been acquired the student is set to making boxes, drawers, simple useful objects, and various kinds of models. In the second term turning is taken up and students are encouraged to make useful articles for themselves, such as small boxes, small table book-cases, minral cabinets, stands, &c., the cost for each being merely that of the material put into them.

The metal-working department contains one large room 64 by 16 feet, and two smaller rooms each 32 by 16 feet, besides a private room for the directors. In the large room are three lathes, two drill presses—one large and one small—a shaping machine and a gear-cutting engine for iron wheels, supplied with Brown and Sharp milling cutters. One of the small rooms contains the grindstone, the emery grinders, and a gear-cutting machine with fly cutters for brass and wooden wheels. Both gear cutters are capable of cutting any number whatever of teeth with pitches from 12 to as high as you please, and will take in blanks up to 7 in. diameter. The second small room is used mostly as a model room in which such

models as are thought worth preserving are stored. This room contains also a large clock with Dennison's gravity escapement, upon the model of a turret clock, and various working models which are put in motion by moving a switch. The clock supplies time to the building. And it and all the models were wholly constructed in the shops.

In the directors' room are a small lathe with slide rest, and a boring machine for drilling the blanks of lantern pinions, and other things of like kind. Two new lathes, a plane with a compound slide rest and a rack feed, and a pittler lathe are in operation.

Ten lessons in blacksmithing are taken by each student during the latter part of his term.

The shops are airy and well warmed and lighted, and neatness, cleanliness and order are insisted upon, so that the shops become an attractive feature of the student's course.

The Mining Laboratory and Ore Testing Works.

The School of Mining has developed from small beginnings a large and comprehensive laboratory, with first-class modern equipment for the practical milling and dressing of all kinds of ores. With but few exceptions the appliances are of standard sizes, such as are employed in actual practice in large works, so that students may obtain efficient instruction in the adjustment, operation and care of this kind of machinery. An elaborate training is also given in the methods of testing ores for process, in which respect the School of Mining offers peculiar advantages, since many mine owners throughout the Dominion avail themselves of the facilities of this laboratory for working out problems in ore milling and dress-

ing on such a scale as to furnish reliable *data* for the specification of projected plants.

Thus large quantities of largely different classes of ores are being tested throughout each session, affording students valuable experience of the most valuable sort.

A systematic course of study is carried out, involving comparative investigations into the effects produced upon different ores by varying methods of crushing; hydraulic classification, jigging, buddling, vanning, riffle-washing, etc., etc.

SOCIETIES AND COMMITTEES.

ALMA MATER SOCIETY EXECUTIVE.

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President	J. D. Calvin, B.A.
1st. Vice-President	A. H. Gibson
2nd. Vice-President	W. C. Gillis
Critic	L. W. Mulloy
Secretary	W. A. Beecroft
Asst. Secretary	K. F. Williams
Treasurer	J. M. Simpson
Committee	D. C. Ramsay, '06, Arts R. S. Ellis, '07, Arts B. W. Thompson, '08, Arts W. Kennedy, Medicine

Y. M. C. A.

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Musical	W. A. Beecroft
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Hand-book	L. K. Sully

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Secretary	T. R. Welwood
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Pianist	W. Beggs

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Missionary	A. G. Curphy

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New Students	J. F. Brander
Hand-book	N. J. Connolly

Y. W. C. A.

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Correspondent to "Young Wom'n of Canada"	Miss Austin

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Auditor	W. L. Uglow
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Committee	L. M. McDougall, Post Graduate Geo. Pentland, '06, " J. D. Ferguson, '07, " S. A. Malloch, '08, " R. M. McTavish, '09, "

AESCULAPIAN SOCIETY.

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Vice-President	F. J. Donevan
Secretary	D. McLellan
Asst. Secretary	N. W. Connolly
Treasurer	J. P. MacNamara
Committee	D. J. Dingwall, '06 B. Asselstine: '07 J. D. Cotnam, '08 J. Gillie, '09

MEDICAL CONCURSUS INIQUITATIS ET VIRTUTIS.

Chief Justice	Hugh Cochrane
Senior Judge	Fergus J. O'Connor
Junior Judge	A. Y. Thompson
Sr. Prosecuting Attorney	W. G. Laidley
Jr. Prosecuting Attorney	G. A. Greaves
Medical Experts	Harold G. Craig M. Alex. Carmichael
Sheriff	J. Herb. Sullivan
Clerk	J. P. Quigley, M.A.
Crier	W. D. Kennedy
Chief of Police	A. T. Spankie
Constables	L. L. Buck — 2nd year. E. T. Myers — 2nd year. M. A. McKay — 1st year. J. B. Hutton — 1st year.
Grand Jury	G. F. Cliff — 4th year. D. M. Young — 4th year. R. F. Nicholls — 3rd year. A. M. McDonald, — 3rd year. W. F. Cornett, — 2nd year. J. P. Clancy, — 2nd year. Charles Burnes, — 1st year. R. R. Barker, — 1st year.

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2nd. Vice-President	J. R. Akins
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VIGILANCE COMMITTEE.

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Jr. Judge	A G. Fleming
Sr. Prosecuting Attorney	J. J. Robertson
Jr. Prosecuting Attorney	W. J. Woolsey
Sheriff	G. G. Dobbs
Cferk	G. R. McLaren
Crier	H. Dempster
Chief of Police	G. T. Richardson

Constables
- F. M. Connell, A. Carr-Harris, — 4th year.
- W. C. Gillies, L. J. Gleeson, — 3rd year.
- F. G. Baker, J. Williams, — 2nd year.
- J. E. Carmichael, J. H. Stothers, — 1st year.

RUGBY FOOTBALL CLUB.

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President ..... F. J. Donovan
Vice-President ..... A. G. Cameron
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Asst. Sec.-Treasurer ..... Dr. Ellis
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Vice-President ..... B. Carmichael
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Captain ..... D. McKay
Committee
- J. R. Hamilton
- T. N. Marcellus
- E. L. Bruce

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Manager ..... R. M. Mills
Capt. 1st Team ..... G. T. Richardson
Capt. 2nd Team ..... C. J. Curtin

QUEEN'S UNIVERSITY JOURNAL.

Editor-in-Chief ..... D. A. McGregor, B.A.
Associate Editor ..... R. J. McDonald
Managing Editor ..... J. L. Nicol

DEPARTMENTS:

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- Miss M. D. Harkness
- Miss M. Lindsay, B.A.

Arts ..... A. G. Cameron
Medicine ..... J. P. McNamara
Science ..... L. A. Thornton
Divinity ..... C. E. Kidd, B.A.
Music ..... T. S. Duncan, M.A.
Athletics ..... D. C. Ramsay

Exchanges ..... H. P. May, B.A.
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Vice-President ..... A. Leatherland
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President ..... W. L. Uglow, M.A.
Vice-President ..... G. A. Platt
Sec.-Treasurer ..... L K. Sully
Committee ..... T. Williams; D. A. McArthur; M. B. Wormwith

PART II.

PART II.

MEDALS, PRIZES AND SCHOLARSHIPS FOR 1905-1906.

UNIVERSITY MEDALS.

Latin ..... Boak, A. E., Kingston.
Greek ..... Dingwall, R. Kingston.
German ..... Baird, A. W., M.A., Brockville.
French ..... Harkness, Mary D., M.A., Metcalfe.
English ..... Harkness, Mary, D., M.A., Metcalfe.
History ..... Ockley, Beatrice, Kingston.
Moral Philosophy ..... McConachie, J. C., M.A., Cranston.
Mental Philosophy ..... Nicol, J. L., Jarvis, Ont.
Chemistry ..... Malcolm, W., Woodstock.
Political Science ..... Uglow, W. L., M.A., Kingston.
Mathematics ..... Coon, H. J., M.A., Beleville.
Animal Biology ..... Usher, W. C., M.A., Wicklow.
Medicine ..... Bolton, E., Philipsville.
Surgery ..... Playfair, L. L., Kingston.
Mineralogy ..... Malcolm, W., M.A., Woodstock.

UNIVERSITY PRIZES—ARTS.

Latin Prose Composition ..... Boak, A. E., Kingston.
Greek Prose Composition ..... Dingwall, R. Cornwall.
Roughton Prize in German ..... Ferguson, Eleanor, Ottawa.
Professor's Prize in French ..... McLeod, D. I.
Rogers Prize in English ..... Macdonnell, Hugh.
Lewis ..... Wallace, H. T., B.A., B.D., Hamilton.
McLennan Prize in Hebrew ..... M. N. Omond, London, Ont.
Gowan Foundation in Botany ..... Malcolm, W., M.A., Woodstock.
Gowan Foundation (Political Science) ..... May, H. P., Little Current, Ont.

UNIVERSITY PRIZES.

Dr. Barker's Prize in Mental Diseases ..... Reid, J., Renfrew.
Best Dissection by two Students ..... McKay, M. A., Grenfell, Sask. Hughes, R., Kingston.
General Proficiency in Practical Anatomy ..... Sargent, F. R., B.A., Kingston.
Faculty Prize for best exam., 2nd year ..... Nurse, C. T. C., Georgetown, B.G.

New York Alumni Association Prize in Physiology and Histology ..... Dunlop, H., B.A., Kingston.
Prize for best examination in Materia Medica ..... Longmore, H. B., B.A., Camden E.
McCabe Prize in Pathology, third year ..... Trousdale, F. H., Hartington.
Prize in Clinical Microscopy.. Paul, R. D., Selby.
Class Prize in Senior Surgery.. Baker, A. E., Blackfelds, Alta.
Class Prize in Junior Surgery.. Spankie, A. T., Wolfe Island.

UNIVERSITY SCHOLARSHIPS.

I.—Arts.

MATRICULATION.

Junior.

Special Scholarship ..... Macdonnell, Mary L., Kingston.
Nicholls Foundation No. 2... Venney, L. F., Brockville, Ont.
Kingston ..... Hamilton, D. W., Hamilton.
Nicholls Foundation No. 3.... Newton, Eliza H., Hamilton.
Watkins ..... Foley, R. S., Kingston.
McLennan Glengarry Foundation ..... Ross, Ethel C., Williamstown, (Honour of Nicholls Foundation, No. 2.

Senior.

Prince of Wales ..... McDonald, Clara, Dutton, (Hon. Leitch Memorial No. 1.)
Governor-General ..... Macdonnell, H., Kingston (Hon. of Watkins.)
Chancellor ..... Henry, S. H., Kingston (Hon. of Prince of Wales.)
MacKerras Memorial ..... McDonald, George, Almonte.
Williamson No. 1..... MacKay, D. L., Berlin.
Leitch Memorial ..... Allan, L., Brockville.
Nicholls, Foundation No. 1... Pierce, Edna, Picton.
Mayor ..... Code, Ethel M., Almonte.
Mowat ..... Skirrow, W. A., Waterford.
Forbes McHardy ..... Black, H., Fergus.

II.—ARTS AND PRACTICAL SCIENCE SESSIONAL.

Chancellor's ..... Carmichael, J.D., Strathcona, Alta.
Calvin in Latin ..... Macdonnell, N. S., Fergus.
Maclennan in Greek .. .. Macdonnell, Hugh, Kingston.

III.—MEDICINE.

Chancellor's ..... Bolton, E., Phillipsville.
Dean Fowler's ..... Quigley, J. P., M.A., Kingston.

Hospital	Playfair, L. L., Kingston. Patterson, W. R., Kingston. Bolton, E., Phillipsville. McCallum, S., Brewer's Mills. Johnston, John, Calabogie. Bell, A. M., Moscow.

IV.—THEOLOGY.

A. MATRICULATION.

David Strathern Dow	Brydon, R.
Dominion	Duncan, T. S.
Buchan, No. 1	McDonald, J.
Buchan, No. 2	Millar, F., M.A., Avening.
Buchan, No. 3	McDougall, L. M., M.A., Brockville.
McIntyre	Tod, A. S., Maguire.
Leitch Memorial	Brown, G. A., B.A., Brockville.

B. SESSIONAL.

Sarah McClelland Waddell	McDonald, J., B.A., Brockville.
Chancellor's	Barnard, A. T., B.A., Hamilton.
Spence	Watt, W. J., B.A., Walkerton.
Anderson, No. 1	Duncan, T. S., M.A., Westport.
Anderson, No. 2	Marshall, D. H., B.A., Campden.
The Tawse	Donnell, J. A., M.A., Beaverton.
St. Andrew's Church, Toronto.	Kidd, C. E., B.A., Prospect.
Rankine, No. 1	Ross, W. M., Nova Scotia.
Rankine, No. 2	Lindsay, M., B.A., London, Eng.
Glass Memorial	Ramsay, D. C., B.A., Plattsville.
Mackie	Wallace, H. T., B.A., Hamilton.
Macrae	Donnell, J. A., M.A., Beaverton.
William Morris Bursary	MacInnes, W. H., B.A., Sharbot Lake.
James Anderson Bursary	MacKinnon, J. D., Cape Breton.

LIST OF GRADUATES FOR 1905-1906.

DOCTORS OF PHILOSOPHY (PH.D).

MacEachran, J. M., M.A.,	Glencoe, Ont.
Wilson, R. A., M.A.	Renfrew, Ont.

MASTERS OF ARTS (M.A.)

Anning, N. H., B.A.	Oxmead, Ont.
Asselstine, O.	Wilton, Ont.
Baird, A. W.	Brockville, Ont.
Campbell, A. L.	Fergus, Ont.
Cooke, J. A., B.A.	Morrisburg, Ont.
Coon, H. J.	Belleville, Ont.
Fairlie, J., B.A.	Kingston.

Fetterly, H. B., B.A.	Cornwall, Ont.
Fleming, Maude E., B.A.	Craithleith, Ont.
Harkness, Mary D.	Metcalfe, Ont.
Hill, J.	Harrington West, Ont.
Malcolm, W.	Woodstock, Ont.
May, H. P., B.A.	Little Current, Ont.
Miller, Cora	Aylmer, Ont.
McConachie, J. C., B.A.	Cranston, Ont.
Pentland, G. E.	Heathcote, Ont.
Solandt, D. M., B.A.	Kingston, Ont.
Speers, J. A.	Alliston, Ont.
Stead, J. H.	Lyn, Ont.
Uglow, W. L.	Kingston, Ont.
Usher, W. C.	Wicklow, Ont.

BACHELOR OF ARTS (B.A.)

Amoss, H. E.	Aylmer West, Ont.
Arthur, Nellie	Consecon, Ont.
Arthur, Leona M.	Consecon, Ont.
Berney, Laura E.	Kingston.
Bongard, Edna E.	Picton, Ont.
Brown, P. W.	Sydenham, Ont.
Burns, Olive M.	Kingston.
Cameron, A. G.	Montague, P.E.I.
Cram, W. S.	Carleton Place, Ont.
Donald, Helen	Belleville, Ont.
Dunlop, Harry	Kingston, Ont.
Everts, H. A.	Lyn, Ont.
Farnham, M. M.	Copper Cliff, Ont.
Ferguson, W.	Snow Road, Ont.
Finlayson, D. K.	Grand River, N.S.
Froats, James	Finch, Ont.
Galbraith, T. M.	Thornbury, Ont.
Gibson, Ethel B.	Kingston, Ont.
Hallett, W. J.	Barrie, Ont.
Hamilton, W. J.	Picton, Ont.
Harrison, F. W.	Richmond Hill, Ont.
Hutchison, J. H.	Battle Creek, Sask.
Jewett, T. J.	Campbell's Cross, Ont.
Karr, W. J.	Sarnia, Ont.
Kidd, G. E.	Prospect, Ont.
Laidlaw, R. J.	Georgetown, Ont.
Lee, S. G.	Colombo, Ceylon.
Losee, J. R.	Collins' Bay, Ont.
Meldrum, G. E.	Hull, Que.
Moffat, William J.	Seaforth, Ont.
Montgomery, I. A.	Pleasant Valley, Ont.
Mulloy, L. W.	Winchester, Ont.
McCormick, Irene M.	Kingston, Ont.
McCrimmon, J. R.	Vankleek Hill, Ont.

McCuaig, H. D. ..... Dalston, Ont.
McEachran, Mary ..... Strathburn, Ont.
Macfarlane, Christina S. ..... Franktown, Ont.
Macgregor, D. A. ..... Tiverton, Ont.
McKenzie, H. Maude ..... Gananoque, Ont.
McLean, Marion ..... London, Ont.
McLellan, D. ..... Forrester's Falls, Ont.
McLennan, C. Lillie ..... Port Hope, Ont.
McMillan, G. ..... Glenallan, Ont.
O'Connell, Marguerite E. ..... Peterboro, Ont.
Odell, Lena ..... Belmont, Ont.
Osgoode, J. A. ..... St. Thomas, Ont.
Patterson, Harriet M. ..... Picton, Ont.
Platt, G. A. ..... Portsmouth, Ont.
Ramsay, D. C. ..... Grand Valley, Ont.
Richardson, J. A. ..... Kingston, Ont.
Roddick, A. M. ..... Lyndhurst, Ont.
Schofield, S. J. ..... Kingston, Ont.
Sharp, G. M. ..... New Liskeard, Ont.
Smith, T. C. ..... Smith's Falls, Ont.
Smith, T. G. ..... Formosa, Ont.
Solmes, Harriet M. ..... Picton, Ont.
Stothers, Minerva E. ..... Ottawa, Ont.
Sully, L. K. ..... Ottawa, Ont.
Thornton, L. A. ..... Peterboro, Ont.
Tod, A. S. ..... Maguire, Ont.
Van Dusen, E. M. ..... Far Rockaway, L.I.
Voaden, A. ..... St. Thomas, Ont.
Ward, Henry ..... Toronto, Ont.
Williams, L. J. ..... Watford, Ont.
Workman, H. C. ..... Kingston, Ont.

GRADUATES IN MEDICINE (M.D.) AND MASTERS OF SURGERY (C.M.)

Baker, A. E. ..... Blackfalds, Sask.
Ballantyne, W. H. ..... Kingston, Ont.
Barnes, J. A. ..... Kingston Junction, Ont.
Bell, A. M. ..... Moscow.
Bolton, E. ..... Philipsville.
Brander, J. F. ..... Northport, N.S.
Cochrane, H. ..... Sunbury.
Cockburn, G. L. ..... Sturgeon Falls.
Dear, C. B. ..... Bridgetown, Barbadoes.
Dingwall, D. G. ..... Lancaster.
Gavin, W. F. ..... Lancaster .
Geddes, W. J. ..... Kingston.
Gordon, C. D. ..... Kingston.
Graham, C. W., B.A. ..... Kingston.
Johnston, J., B.A. ..... Combermere.
Keys, S. J. ..... Kingston.
Kingsley, F. ..... Kingston.

Laidley, W. G. ..... Kingston.
Lavell, W. H. ..... Kingston.
Lawler, C. A. ..... Kingston.
Lucas, S. L. ..... Kingston, Jamaica.
Lowe, F. E. ..... Adelphi, Jamaica.
McCallum, S., M.A. ..... Brewer's Mills.
McCormick, J. P. ..... Ottawa.
McDonald, D. J. ..... Whycocomagh, N.S.
McKenley, A. G. ..... Chapelton, Jamaica.
Maclachlan, A. J. ..... Glencoe, Ont.
McLellan, D. ..... Forester's Mills.
Nicolle, F. R., B.A. ..... Kingston.
O'Connor, F. J. ..... Long Point.
Palmer, W. M. R. ..... Northcote.
Paterson, R. K. ..... Renfrew.
Patterson, W. R., B.A. ..... Kingston.
Playfair, L. L. ..... Kingston.
Publow, C. A. ..... Kingston.
Redden, H. O. ..... Ernesttown.
Reid, J. ..... Renfrew.
Rob, A. D. C. ..... Nashville, Tenn.
Sandwith, B. A. ..... Whitstable, Eng.
Saunders, T. F. ..... Rhinebeck, N. Y.
Scott, R. H. .....
Shannon, S. S. ..... Kingston.
Smith, S. H. ..... Chambers.
Snyder, J. B. ..... Lancaster.
Spankie, W. E. ..... Wolfe Island.
Stewart, J. R., B.A. ..... Waba.
Sutherland, E. M., B.Sc. ..... Montreal, Que.
Sutherland, R. C. ..... Montreal, Que.
Taugher, W. J. ..... Beachburg.
Templeton, C. P. ..... Napanee.
Wade, J. J. ..... Balderson.
Young, D. M. ..... Bristol, Que.

MASTER OF SCIENCE (M.SC.)

Way, W. C., B.Sc. ..... Kingston.

BACHELORS OF SCIENCE (B.SC.)

In Mining Engineering.

Carr-Harris, A. ..... Kingston.
Connell, F. M. ..... Spencervile.
Dobbs, G. G. ..... Kingston.
Richardson, G. T. ..... Kingston.
Robertson, J. J. ..... Fergus Falls, Minn.
Shorey, P. M. ..... Oshawa.
Timm, W. B. ..... Westmeath.

In Electrical Engineering.

Berney, K. C. ..... Athens, Ont.
Code, L. B. ..... Kingston.
Finnie, H. V. ..... Peterboro, Ont.
Lennox, J. S. ..... Kingston.
Millar, T. R. ..... Kingston.
Pinkerton, W. A. ..... Portland, Ont.
Smyth, W. L. ..... Pembroke.

In Mechanical Engineering.

Bailie, A. A. ..... Billing's Bridge.

In Civil Engineering.

Thornton, L. A. ..... Peterboro, Ont.

In Mineralogy and Geology.

Bolton, L. L., M.A. ..... Portland, Ont.
Malloch, G. S., B.A. ..... Hamilton.

MINING ENGINEER (M.E.)

Cairnes, D. D., B.Sc. ..... Ottawa.

BACHELORS OF DIVINITY (B.D.)

Mahaffy, A. ..... Port Elgin, Ont.
Miller, J. M., M.A. ..... Nanaimo, B.C.
Petrie, J. A., B.A. ..... Belleville, Ont.
Wallace, H. T. ..... Hamilton.

Testamurs in Theology.

Caldwell, J. A., B.A. ..... Watson's Corners, Ont.
Cameron, A. E., B.A. ..... Wemyss, Ont.
Donnell, J. A., M.A. ..... Beaverton, Ont.
Ferguson, J., B. A. ..... Fergus, Ont.
Kidd, C. E., B.A. ..... Prospect, Ont.
Kidd, W. J., B.A. ..... Prospect, Ont.
Lindsay, M. F., B.A. ..... Sydenham, Eng.
Munro, M. F., B.A. ..... Lancaster, Ont.
McKeracher, D. A., B.A. ..... Dutton, Ont.
McDonald, J. M., B.A. ..... Orangeville, Ont.
Stewart, J. A. ..... Kincardine, Ont.
Woods, I. H., B.A. ..... London Junction, Ont.

DOCTORS OF LAW (LL.D.)

Carnegie, Andrew ..... New York.
Willison, J. S. ..... Toronto.

PASS LIST.

ARTS.

I. SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1905.

Junior Latin.—Downey, R. F.; Burchill, A. M.; Fallis, L. K.; Lawrence, C. W.; Moffat, W. J.; Brennan, J. B.; Brown, P. W; Craig, V.; McRae, A. R.; Pratt, Pauline; Nesbitt, Mabel; Hendry, Annie S.

Senior Latin.—Hutchison, R. H.; Baird, A. W.; Macfarlane, Christine; Davidson, Ebna; Code, S. W.; Finlayson, D. K.

Senior Greek.—Amoss, Harold E.; Cowles, J. P.; Ferguson, J. J.;

Junior French.—Rhoades, H. G.; Hughes, F. J.; Clarke, T. E.; Fallis, L. K.; Sprague, W. E.; Kirkpatrick, W. H.

Senior French.—Tomkins, Elizabeth A.; Matthews, Jessie; Van Dusen, E. M.; Mattock, Maude; Davidson, Edna; Ellis, Mima., Buchanan, J. A. McNabb, J., Nesbitt, Mabel. Belfry, Mabel.

2nd Year Scientific French.—Losee, J. R.

3rd Year Scientific French.—Losee, J. R.

Junior German.—Sprague, W. E.; Bluett, Claude.

Senior German.—Fuller, E. L.; Karr, W. J.; Belfry, Effie.

Junior English.—Matthews, Jessie; Smith, Harriett J.; Mattock, Maude; Caverley, D. C.; Gleeson, L.; McMichael, Mary; Maloney, T. C.; Richmond, D. W.; Fleming, J. S.; Lambert, B.; Mallen, L.; Marriott, W. Clare.

Senior English.—Bluett, Claude; Karr, W. J.; Taggart, B. C.; Belfry, Effie; Davidson, Edna; Dennis, E. M.; Gilmour, Allan; Finlayson, D. K.; McDonald, N. S.; Abbott, Muriel.

Mediaeval History.—Code, H. A.; Sully, L. K.; Davidson, Edna; Feasby, W. J.; Wellwood, J. R.; McMichael, Mary; Buchanan, J. A.; McConkey, Eva; Smith, Harriett, Chandler, Pearl.

English Constitutional History.—Hamilton, W. J.; Van Dusen, E. M.; Platt, G. A.; Macfarlane, Christine; Ide, Wm.; Ettinger, J. G.; Buchanan, J. A.; Kerr, Martin; Wellwood, J. R.; Stothers, Minerva; Scott, A. K.; MacIntosh, C. R.; McKim, C. W.

Pass Mental Philosophy.—Ellis, Mima A.; Hamilton, W. J.; Kingston, H. R.; Clarke, T. E.; Osgoode, J. A.; Macfarlane, Christine, S.; Foley, D. E.; Wellwood, T. R.; Letherland, A.; Flynn, T. A.; Dickson, Zilpha H.; Shaver, C. A.; Hamilton, J. R.; Burchill, A. M.

Moral Philosophy.—Froats, J.; MacIntosh, C. R.; Harrison, F. W.; McKim, C. W.; Osgoode, J. A.; Dennis, E. M.; McDonald, N. S.; Stothers, Minerva.

Economics.—Jackson, R. C.; Rhoades, H. G.; Osborne, N. A.; Kerr, T. R.; Smith, R. D.; Robinson, J. C.

Politics.—Wright, M. L.; Clarke, H. M.; Law, C.

Junior Mathematics.—Montgomery, A. R.; Fargey, Agnes, A.; Ide, W.; Compton, Edith; Grass, Margaret.

Senior Mathematics.—Froats, J.; Evans, J. J.; Gibson, Ethel.

Junior Physics.—Muir, Jessie; Parker, H. R.; Ellis, Mima A.

Senior Physics.—Brown, H. W.; Workman, H. C.

Pass Animal Biology.—Ashman, Geo. H.; Shaver, Alice; Reynolds, Lillian; Reynolds, B. C.; Barker, E. A.; Wright, M. L.; Chandler, Pearl E.; Montgomery, A. R.

Pass Botany.—Macfarlane, Christine S.; Nicol, Margaret A.; Ashman, Geo. H.; Downey, R. F.; Wright, M. L.; McNabb, J.

Junior Chemistry.—Ide, Wm.; Urquhart, J. R.; Gibson, Ethel; Flynn, A.; Barker, E. A.; Joyce, C. E.; Bennett, W. P.

Senior Chemistry.—Starr, Hannah J.; Reynolds, B. C.; Hughes, R. A.; Forrester, J. W.; Ellis, R. J.; Hofferd, G. W.

2. SESSIONAL EXAMINATIONS.

ARTS.

PASS LISTS, APRIL, 1906.

Junior Latin.—Div. I, Ross, Ethel; MacInnes, Isabel; Bland, C. H.; Mackay, D. L.; Menzies, A. P.; Hamilton, W. J.; Crawford, V. W.; Fraser, G. L.; Faris, M. N.; Swinburne, A. H. Div. II—Chown, S. G.; MacTavish, R. M.; Boyd, F.; Ferguson, Eleanor; Best, H. H.; Hall, W. T.; Cram, Elizabeth; Elliott, Gertrude; Kidd, T. W.; Burgess, W. H.; Pierce, Alice. Div. III—Bow, M. R.; Hampson, E.; Maxwell, Daisy; Hall, Margaret; Jandrew, W.; Farnham, M. M.; Jermyn, J. W.; Mercer, A. T.; Kennedy, P. J.; Gardiner, J. N.; McCandless, Bessie; Madden, J. L.; Kendrick, G. B.; Lake, Ethel; Chown, Ada; Wager, C. M.; Neely, R. W.; Foster, Jessie; Brunton, W. D.; MacEachran, Mattie; Ferguson, W. P.; Davis, Gertrude; Greer, G.; Crowley, L. E.

Senior Latin.—Div. I, Macdonnell, N. S.; Macdonnell, H. W.; Black, H. J.; Code, Ethel; Davidson, Edythe; Muir, Jessie; Downey, R. F.; McLeod, D. J.; Foley, R. Div. II—Foster, D. E.; Robinson, G. D.; Caverley, D. C.; Burchill, A. M.; McDonald, G.; Pierce, Edna; Stewart, Annie; Mackintosh, Helen; Lane, D. J.; Stevens, R.; King, G. A.; Maxwell, Daisy; MacKenzie, Jessie; Hicks, G. O.; Hughes, Ada; Scott, Carrie; Lawrence, C. W.; Young, J. H. Div. III—Dobson, W.; Foley, D. E.; ClancyG. S.; Matheson, M.; Rafter, R.; Cameron, Gertrude; Walker, A. J.; Warren, P.; Gilchrist, W. A.; Liggett, R. H.; McEachran, Mary; Laidlaw, R. J.; McEachran, J. G.; Ferguson, W.; McDunnough, J.; Taylor, May; McKechnie, Phoebe; Mackenzie, Winewood; Chandler, Pearl; Kilpatrick, W. H.; Solmes, Harriette; Little, A. M.; Dobson, W. A.; Dingwall, W. A.;

Bongard, Edna; McCrimmon, J. R.; Haughton, C.; Platt, G. A.; Somerville, R. H.; McAskile, J.; Smith, Harriet; Wilson, G. H.; Grover, J. I.; Odell, Lena.

Junior Greek.—Div. I, MacTavish, R. M.; Menzies, A. P. Div. III—Gibson, A. H.; Burgess, W. H.; Crowley, L. E.; Mercer, A. T.; Raney, W. H.; Morison, W. R.; Shaver, J. A.; Shaver, J. M.; Somerville, R. H.

Senior Greek.—Div. I, Macdonnell, H. W.; Macdonnell, N. S.; Omond, M. N.; Dobson, W.; English, R. G.; McDonald, G.; Jewitt, T. J.; McGillivray, J. M.; McPherson, P. C. Div. II—Lane, D. J.; Warren, P.; Jackson, R. C.; Pringle, S. W.; Montgomery, J. A.; Stott, W. Div. III—Ferguson, W.; Little, A. M.; McCrimmon, J. R.; Gilchrist, W. A.; Clugston, J. F.; McAskile, J.; Laing, A.; Anglin, R. W.; Haughton, C.; Liggett, H.

Junior German.—Div. I, Lioba, Sister M.; Claverine, Sister M.; Hortense, Sister M.; Alberta, Sister M.; Detweiter, J.; Watson, Harriet W.; Pierce, Edna; Goodwin, Edith C. Div. II—Paul, C. A.; Doxie, W. W.; McCandless, Bessie, Cram, Elizabeth. Div. III—Stirling, J. B.; Reive, Annie L.; Stewart, Annie J.; Chown, Ada F.; Galbraith, I. M.

Senior German.—Div. I, Ferguson, Eleanor; Currie, Mima; Code, Ethel; Hanna, E.; Wilson, Mabel A. Div. II—Davidson, Edythe McL.; Malloch, T. A.; Doan, A. W. R., Foley, R., equal; Pierce, Edna; Chandler, Pearl E.; Stevens, R. S. Div. III—Cameron, Gertrude; Bluett, C.; Black, H. J.; Laing, A.; Greene, Edith M.; Cooper, A. B.; Kerr, I. R.

Junior French—Div. I, Mackay, D. L. Swinburne, A. H. Howson, L.; Watson, H. W. Div. II—Ellis, D.; Ross, E.; Chown, A. F.; Faris, M. N.; McDonald, J. A. Div. III—McCandless, B.; Wood, A. V.; Boyd, F.; Mitchell, E.; Goodwin, E. C.; Greer, G.; Kendrick, G. B.; Pierce, A. L.; Williams, K. F. A.; Hicks, G. O.; Kidd, G. E.; Neely, R. W.; O'Leary, W. A.; Galligen, J.; Bow, M. R.; Farnham, M. M.; Burke, L.; Hall, H. M. S.; Madden, J. T.; Stead, J. H.; Losee, W.H.; Forneri, K.de; Smith, J. C.; Elliott, G.; Stewart, L. D.; Evans, J. J.

Senior French.—Div. I, McLeod, D. I.; Crawford, C. M.; Code, Ethel; Howson, Lexa; Malloch, T. A.; McInnes, Isabel; Nicol, Margaret A., equal; Corkery, Florence, Davidson, Edythe McL., equal; Foley, R.; Pierce, Edna. Div. II—Cornett, A. D.; Tracey, W. R.; Currie, Mima, Hughes, T.J., equal; Doan, A. W. R.; Ashman, J. H., Stewart, Annie J., Weaver, A. H. Maud, equal; Reive, Annie L.; Clarke, T. E. Div. III—Smart, R. S., Chatterton, Annie, equal; Wilson, Mabel A.; Cameron, Gertrude; Hampson, E.; McCammon, J. G.; Compton, Edith; Mallen, L.; McEachern, J. G.; Laidlaw, R. J. Greene, Edith M., Lavell, Marion F., Dobson, W. A., Richardson, Elizabeth A., equal.

Scientific French, 2nd year—Div. I, Carmichael, D. A.; Div. II, Sprague, W. E.; Shaw, J. G.; Gardiner, J. N.

Scientific French, 3rd year—Walace, W. G.; Carmichael, D. A.; Sprague, W. E.; Robb, D.; Reynolds, B. C.; Goodfellow, T. J.

Scientific French, 4th year—Varden, A.; Lowe, J. R.

Junior English.—Div. I, Fraser, Gordon; Watson, Harriet, Gilson, Rose. Div. II—Cameron, Gertrude; Elliott, Jennie; McTavish, R. M.; MacEachran, Mattie; O'Brien, J.; Ross, Ethel C.; Lioba, Sister M.; Hall, W. T.; Cram, Elizabeth; Menzies, A. P.; Code, Ethel; Bow, M. R.; Chown, Ada; Hall, Margaret; Hortense, Sister M.; Pierce, Alice L.; Boyd, F.; McCandless, Bessie; Goodwin, Edith; Henry, S. H.; Crowley, L. E.; Donnell, A.; Faris, M. N.; McQuarrie, J. Div. III—Neely, R. W.; Stirling, J. B.; Morison, W. R.; McLaughlin, R.; Swinburne, A. H.; Madden, J. L.; Mitchell, Edna; Greer, G.; Murtagh, H. I.; Elliott, Gertrude; Burgess, W. H.; Burke, Laura; Macdonald, I. A.; Lipman, A.; Sheriff, W. T.; Cornell, D. A.; Best, H. H.; Ralston, G. D.; Detweiler, Jno.; Galligan, J.; Morgan, W. B.; Mercer, A. T.; Smith, J. C., Kendrick, G. B.

Senior English.—Div. I, Macdonnell, H. W.; *King, G. A.; Macdonnell, N.; *Weir, W. I.; *Foley, Roy. Div. II—Ferguson, Eleanor; Currie Mima; Pierce, Edna; McDunnough, J.; Caverley, D. C.; MacArthur, D. A.; Black, H. J.; Foster, D. E.; Macdonnell, A. D.; Somerville, R. H.; Easson, R.; McKechine, Phoebe; Davidson, Edith; Starr, Hannah; Graham, C. R.; Bothwell, N. D.; Feasby, W. I.; Macdonald, Geo.; *White, H. T.; Brennan, Jno.; Stewart, Annie J.; Compton, Edith; Gilchrist, W. A.; Goodwin, W. M.; *Cook, W. J.; Shaw, A. B.; Howser, W. H.; Williams, K. F. G.; Muir, Jessie; Buchanan, J. D.; Smart, R. S.; Thompson, B. W.; Branion, S. J.; Foley, D. E.; Downey, R. F.; McKeil, H.; Wright, R.; Dobson, W.; McCammon, J. G.; Chatterton, Anna; Little, Andrew; Crawford, V. M.; Dobson, W. A. Div. III—Malloch, Maud; Daley, I. C.; Hofferd, G. W.; Grover, J. I.; Haughton, C.; Lavell, Marion; MacEachran, J. G.; MacKinnon, G.; McCuaig, H. D.; Kaine, J. M.; Liggett, R. H.; Richardson, E. A.; Reive, Annie D.; Wilson, G. H. D.; Hampson, E.; Tulley, C. I.; Stewart, I. A.; Malloch, T. A.; Warren, P.; Lane, D. J.; Simpson, E. R.; Denny, J. D.; Craig, V.,; English, Ralph; MacIntosh, C. R.; Fargey, Agnes; Dingwall, W. A.; Weaver, Ora; Wallace, S. A.; Stevens, R. S.; Paul, C. A.; Skene, J. B.; Davis, Gertrude; Spague, W. E.; Dewey. W. G.; Clancy, G. S.; Turner, N. L.; Young, I. H.; Turner, A. B.; Cawker, H.; Lake, Ethel M.; Simpson, J. M.; Bertram, Jean R.; Greene, Edith M.; Pratt, Pearl; Ferguson, W. P.; Sny-

der, H. A.; Macarthur, Donalda; McMichael, Mary; *Shaw, J. G. Elocution—King, G. A.; Weir, W. J., Foley, Roy.

Mediaeval History.—Div. I, Ferguson, William. Div. II—MacKenzie, Jessie; Black, H. J.; Code, Ethel; Hughes, F. J.; Fraser, G. L.; McLaughlin, R. E., equal; Wilson, Alfred; Alford, Ethel, McKeracher, Donalda, equal; Howson, Lexa, Currie, Mima, Vandusen, E. M., equal; Caverley, D. C.; Livingston, C. W.; McRae, Caroline, equal; Chatterton, Anna; Matheson, Murdock, Gilmour, A., equal. Div. III—Corkery, Florence, Turner, A. B., equal; Donald, Helen, Rafter, R., equal; Montgomery, I. A., Raymond, Anson; Stothers, Minerva; Thompson, B. W.; Shaw, Annie B.; McEachran, Jno. G.; Alton, Agnes; Kirkpatrick, W. H., Kennedy, Fred., Stevens, R. S.; McCrimmon, J. R.; Elliott, Jennie; Mitchell, Edna; Denny, J. D.; Mills, Frances; Nesbitt, Mabel; De Forneri, Kate; Millar, Edna; Reid, Jean; Fargey, Agnes, Pound, F. J.

English Constitutional History.—Div. I, Mckenzie, Jessie; Karr, W. J.; Clifford, Margaret; Cornett, A. D.; Ferguson, J. D., Everts, Howard, Graham, C. R., equal; McArthur, D. C., Bluett, Claude, Feasby, W. J., Hall, W. T., equal. Div. II—Gilmour, A.; Matheson, Murdock; Ramsay, D. C.; McKeracher, Donalda; Dingwall, W. A. Branon, S. J. A., Burns, C. J., Osgoode, J. A., equal; Hughes, Ada; Sully, L. K., Wallace, S. A., equal. Div. III—Greene, Edith M.; Clancy, G. S.; Spotswood, Edna, Chandler, Pearl, equal; Stewart, Annie, Millar, Edna, equal; Reid, Jean, Rafter, R., equal; Mitchell, Edna, Calhoun, Kathleen, equal; Thompson, B. W.; Fargey, Agnes, Laidlaw, R. J., equal; Pound, F. J.; Kirkpatrick, W. H.; White, Herbert P., McCammon, J. G., equal; Crawford, Pearl; Reynolds, L. W., McEachern, J. G., McArthur, Annie, equal.

Mental Philosophy.—Div. I, McQuarrie, J. M.; MacKay, D. L.; Foster, D. E.; Lane, D. J.; Solmes, Harriette; Robinson, G. D.; Clifford, Margaret; Snyder, H. A.; Macdonell, A. D.; Wallace, W. G.; Liggett, R. H.; Nicol, Margaret A.; Cornell, M. L.; McLeod, D. L. Div. II—Huff, J. S.; Stott, Wm.; Detweiler, Jno.; Dobson, Wm. A.; Austin, Bessie; Houser, W. H.; Henry, S. H.; Macarthur, Annie; Poole, Edna; Cowles, J. P.; Bongard, Edna; Reine, Annie; Baird, A. W.; McDonald, G.; Wilson, A. N.; English, R. G.; McMillan, G.; Ide, William; Lavelle, Marion F.; McKeil, H. W.; Burns, Olive M.; Little ,A. M.; Burke, Laura; Goodfellow, T. J.; Alford, Ethel; Simpson, J. M.; Young, J. H.; Anglin, Jennie; Bowen, N. L.; McNeill, J. W.; Dobson, W; Ferguson, Eleanor; Chatterton, Anna. Div. III—Warren, P.; Grover, J. I.; Gilchrist, Wm. A.; Cawker, Harold; Nesbitt, Mabel E.; Skene, J. B.; Maxwell,

Daisy; Cameron, A. G.; Robb, D.; Gray, A. A.; Starr, Hannah, J.; Anglin, R. W.; Doxee, W. W.; Hiscock, Mary B.; Downey, R. F.; Wilson, G. H.; Macdonald, N. S.; Wood, A. V.; Burchell, J. E.; Shaw, J. G.; McConkey, Eva; Sprague, W. E.; Maceachran, Mattie; Greene, Edith W.; Crawford, C. M.; Chown, Ada F.; O'Brien, J.; Richardson, Elizabeth A.; Jordan, Dennis; Mills, Frances; Losee, J. R.; Macarthur, Donalda.

Moral Philosophy.—Div. I, Cram, W. S.; Stewart, Lily; Cornett, A. D.; Omond, M. N.; MacInnes, Isabel; Richardson, J. A.; MacGillivray, J. M.; McArthur, D. A.; Harkness, Mary; McLeod, D. I.; Jewitt, T. J.; Karr, W. J.; McAskile, J. M.; Macfarlane, Annie; McIntosh, W. D.; Macfarline, Christina; Ferguson, J. D.; Rafter, R.; Bland, C. H. Div. II—Somerville, R. H.; Boak, A. E.; Branion, S. J. A.; Clarke, T. E.; McPherson, P. G.; Foley, D. E.; Drysdale, F. W.; Burns, Olive; Ashman, G. H.; Burns, C. J.; Hallett, W. J.; Campbell, N. W.; McGlennon, A. C.; MacKenzie, Jessie; Huff, J. S.; MacLachlan, D. N.; Beecroft, A.; Van Dusen, E. M.; Dobson, W. A.; McCuaig, H.; Downey, R. F.; Macfarlane, Mary; O'Donnell, Florence; Berney, Laura; Kidd, G. E. Div. III—McRae, A. R.; Richardson, Kate; Bertram, Jean; McCallum, J. F.; Hiscock, May; Urquhart, J. R.; MacKenzie, W. E.; Sully, L. K.; White, H. P.; Clarke, H. M.; McKinnon, G. W.; Walker, A. J.; Burchell, A. M.; Knowles, R. W.; Hay, W. M.; MacInnes, J. L.; McQuarrie, J. M.; Odell, Lena, Hill, J.; Cook, N. J.; Rintoul, A.

Economics.—Div. I, Foster, D. E.; McKay, D. L.; McQuarrie, J. H.; McDonnell, H. W., McDonnell, N., equal Div. II—Caverley, D. B.; McLaughlin, R. E.; McIntosh, W. D.; Fraser, G. L.; O'Brien, J.; Bland, C. H.; Brown, D.; Brennan, John, Hooper, C. H., equal; King, G. A.; Burgess, W. H.; Joyce, C. E. Div. III—Donnell, A.; Matheson, M.; Menzies, A. P.; Woods, A. V.; Everts, H. A.; Holland, Evelyn, Stewart, J. A., equal; Goodwin, William, Wilson, G. H., equal; Flynn, Arthur; Somerville, R. H.; McFarlane, Christine; Dobson, W.; Ferguson, D. A.; Grover, J. I.; Turner, A. B.; Skene, J. B.; Kennedy, W. N.; Haughton, C.

Politics.—Div. I, Macdonnell, N.; Cornett, A. D.; Jackson, R. C.; Bland, C. H.; Hooper, C. H.; MacInnes, J. L.; Clugston, J. F., King, G. A., equal; O'Brien, J. Div. II—Everts, H. A.; Burns, Olive M.; McLaughlin, R. E.; Osborne, N. A. Div. III—Beecroft, A.; Flynn, A.; McCrimmon, J. R.; Rhoades, H. G.; Urquhart, J. R.; Robinson, J. C.; Knowles, R. W.; Chapman, W. F.; Rintoul, A.; McNeill, J. W., Wilson, G. H., equal.

Junior Mathematics.—Div. I, Black, H. J.; Elliott, H. E.; Foley, R.; Sine, F. L. Div. II—Ross Ethel; Menzies, A. P.; Mc-

Tavish, R. M.; Zavitz, A. S.; Chown, S. G.; Bow, M. R.; Faris, M. N.; Boyd, F.; Anderson, J. A.; McDonald, G.; McCuaig, H. D.; Reive, Annie L. Div. III—McDonnell, H. W.; McLeod, D. I.; Burke, Laura; Cram, Elizabeh; Hall, Margaret S.; Kendrick, G. B.; Crawford, C. M.; Madden, J. L.; Lake, Ethel; Watson, Harriot; Wallace, S. A.; Stevens, R. S.; Turner, A. B.; Mills, Francis; Morrison, W. R.; Tod, A. S.; Kennedy, W. W.; De Forneri, Kate; Bennett, W. P.; Goodwin, Edith; McCallum, J. F.; Neely, R. W.; Pierce, Alice L; Gravelle, F. W.; Sheriff, W. T.

Senior Mathematics.—Div. II, Brown, D.; Hooper, J. C.; Joyce, C. E.; Doxee, W. W.; Ashman, G. H.; Burchell, A. M.; Ferguson, W. P. Div. III—Kidd, F. W.; Dobbie, J. A.; Reynolds, Lillian; Doolittle, J.; Tuck, J. R.; Houston, J. A.

Junior Physics.—Div. I, Paul, C. A.; McKiel, H. W. Div. II—Bow, M. R.; Weir, W. J.; Smith, G. H.; Madden, J. L.; Burchell, J. E. Div. III—Anderson, J. A.; Lipman, A.; Chown, S. G.

Senior Physics.—Hamilton, W. J.; Chant, W.; Henry, S. H.; Paul, C. A. Div. II—Hooper, J. C.; Bowen, N. L.; Ralston, G. D. Div. III—MacDonell, A D.; Doxsee, W. W.; Weir, W. J.; Parker, H. R.; Cawker, H. M.

Pass Botany.—Div. I, Stilwell, G. B.; Burns, Olive M.; Anderson, J. A.; Easson, R. C., White, H. T., equal; MacKay, D. L.; White, H. P.; Donald, Helen; Mills, Frances W.; Odell, Lena, Law, C. E. L. H., equal. Div. II—Galloway, J.; Kidd, G. E., McGlennon, A. C., equal; Livingston, C. W.; McIntyre, W. E. Div. III—Stewart, Lily M.

Botany for Extra Murals.—Div. I, Brunton, W. D.; Rhoades, H. G.; Meldrum, G. E.; Van Dusen, E. M.; Workman, H. C.; Ferguson, W. F.; Farnham, M. M.

Pass Animal Biology.—Div. I, Cram, W. S.; Malloch, T. A.; Gibson, J. W.; Stilwell, G. B.; White, H. T.; Donald, Helen; King, G. A. Div. II—Holland, Eveline; McInnes, G. L.; Fraser, G. L.; Harrison, F. W.; Smith, G. H.; Donald, Jean; Douglas, J. H. Div. III—Dunham, C. S.; Gardiner, J. H.; Shaw, J. G.; Urquhart, J. R.; Forrester, J. A.; Lipman, A.; Tuck, Jno. R.; King, Shirley; Stothers, Minerva; Burchill, A. M.; Walsh, M. J.; Fleming, A. A.; O'Leary, A.; Anderson, Jno. A.; McGlennon, A. C.

Junior Chemistry.—Div. I, Boyd, Fred, Malloch, T. A., equal; Daley, Jas. C.; Chown, S. G.; Shaw, J. G.; Bothwell, N. D.; Goodwin, W. M., Ross, Ethel, Swinburne, A. H., equal. Div. II—Potter, S. C.; Faris, M. N.; Muir, Jessie; Maguire, J. D., MacCallum, J. F., Kennedy, P. J., equal; Barnum, L. A., Greer, Garnet, equal; Mattock, Maud. Div. III—Kendrick, G. B.; McArthur, F. L.; Gravelle, F. W.; Neeley, R. W.; Craig, V. H.

Senior Chemistry.—Div. I, Henry, S. H., Hooper, J. C., equal; Ellis, D., Stilwell, G. B., equal; Carmichael, D. A.; Lipman, A.; Easson, R. C.; McKiel, H. W. Div. II—Ide, W., Houston, J. A., equal; Gardiner, J. N.; Kidd, T. W.; Wood, A. V.; Crawford, V. W. Div. III—Anderson, J. A.; Williams, K. F.; Parker, R. H.; Letherland, A.; Richardson, J. A.

Elementary Mineralogy and Blowpipe Analysis.—Div. I, Ellis, D.; Ferguson, W. P.; Hooper, J. C.; McMillan, G. Div. II —Kidd, G. E.; Stilwell, G. B.; Forrester, J. W. Div. III— Williams, L. J.; Gibson, J. W.; Thornton, L. A.; Stead, J. H.; Richardson, J. A.

Medical Botany.—Ellis, R. J.; Robb, D.; Gardiner, J. M.; Shaw, J. G.

Pass Geology.—Div. I, Stilwell, Geo. B.; Bland, C. H.; Hooper, J. C.; Sine, F. L.; Brown, D.; Pringle, G. W.; McMillan, G., Sully, L. K., equal. Div. II—Huff, J. S.; Livingstone, C. W.; Smith, G. H.; Grover, J. I.; Gibson, J. W.; Stott, Wm.; Montgomery, J. A.; Tuck, J. R. Div. III—Forrester, J. W.; McEachern, J. J.; Urquhart, J. R.; McDonald, N. S.

Senior Hebrew.—Div. I, A. T. Barnard. Div. II—H. McCuaig. Div. III—W. Ferguson; J. F. Clugston; B. S. Black; J. R. McCrimmon; J. A. Donnell.

Junior Hebrew.—Div. I, Omond, M. N.; Cornett, A. D.; Sully, L. K.; Duncan, T. S., McDonald, N. J., equal; Jewitt, T. J.; McIntosh, R. D.; Ligget, R. H.; Ramsay, D. C. Div. II— Young, I. H.; McAskile, I.; English, R. G.; McGillvray, J. A., Pringle, G. W.; Gilchrist, W. A. Div. III—Montgomery, I. A., Laing, A., Urquhart, J. R., Morgan, W. B., equal; Tod, A. S.; Stott, W.; Salisbury, C. C., Shaver, J. A.

ARTS HONOUR LISTS, APRIL, 1906.

Preliminary Honour Latin—Class II, Graham, C. R. Class III —Cameron, A. S.; Stothers, Minerva.

Final Honour Latin—Class I, Boak, A. E. Class II—Osgoode, J. A.

Preliminary Honour Greek.—Class I, Burns, C J.; McRae, Caroline J. Class II—Graham, C. R. Class III—Dunlop, Florence M.

Final Honour Greek—Class I, Dingwall, R. Class II—Osgoode, J. A.

German Honours, Preliminary.—Class I, McDunnough, J., Wilson, A., equal; Feasby, W. J. Class II—Charlesworth, J. W.; Ferguson, Eleanor;; Reid, Jean J., Elliott, Emily M., equal; Fuller, E. L. Class III—Spencer, Amy; Scott, Carrie L.; Calhoun, Kathleen; Alford, Ethel, Clifford, Margaret, Millar, Edna M., McArthur, Annie, equal.

German, Honours, Final.—Class I, Baird, A. W.; Fleming, Maude E. Class II.—O'Connell, Marguerite; Deutchman, F. W.; Brydon, R. Class III—Bongard, Edna; Solmes, Harriet; McLennan, C. Lillie; Donald, Helen.

German, Intermediate.—Class III, Arthur, Nellie; Arthur, Leona.

French, Preliminary Honours.—Class I, Wilson, A; Fuller, E. L.; Elliott, Emily; McDunnough, J.; Hanna, E., Alford, Ethel F., equal. Class II—Reid, Jean G., Clifford, Margaret, equal; Macarthur, Annie M., Millar, Edna, equal. Class III —Macfarlane, Annie, S.; McKerracher, Donald A. A., Scott, Carrie L., Spencer, Amy, equal; MacKenzie, Winewood F., Calhoun, Kathleen, equal; Macfarlane, Mary B., Bertram, Jean K., equal; Spotswood, Edna.

French, Intermediate Honours.—Class II, Arthur, Lena M.; Arthur, Nellie. Class III—O'Connell, Marguerite.

French, Final Honours.—Class I, Harkness, Mary D.; McIntosh, Helen; Baird, A. W. Class II—McLean, Marion; Poole, Edna M.; Solmes, Harriette M. Class III—Austin, Bessie; Anglin, Jennie; Bongard, Edna; Ettinger, Jennie; McLennan, Lillie.

English, Preliminary Honours (Anglo-Saxon).—Class I, Omond, M. N.; Singleton, Jessie W. Class II—Astin, Bessie; Wilson, Alfred; Penny, Elizabeth; Spotswood, Edna; Lindsay, Muriel; McInnes, Isabel; Denyes, J. M. Class III—Macfarlane, Mary; McKerracher, Donalda; Macfarlane, Annie P.; Beecroft, A.; Graham, Violet B.; Fuller, E. L.; Poole, Edna M.; Reid, Jean S.; Aylesworth, M. E.; Spencer, Amy; Calhoun, Kathleen; Matheson, Murdock; Hanna, Ed.; Rintoul, Alex.; Stott, Wm.; Osborne, N. A.

English, Intermediate Honours.—Class III, McEachran, Mary; Cooper, A. B.; Pringle, G. W.; Lindsay, Muriel; Stewart, Lily D.; Hallett, W. J.; Cowles, J. P.

English, Final Honours.—Class I, Harkness, Mary D. Class II —McDonald, R. J.; McGregor, D. A.; Cameron, A. G.; Osborne, N. A. Class III—Arthur, Nellie; McCormack, Irene; Asselstine, Elizabeth; McLean, Marion; Singleton, Jessie W.; Berney, Laura; Patterson, Harriet; Roddick, A. M.; Mackenzie, Maud; Duncan, T. S.

Preliminary Honours.—Class II. McRae, Caroline; Dunlop, Florence; McKenzie, Maude; Aylesworth, Mabel; Patterson, Harriette, Class III—Cameron, Arthur; Weaver, Maude.

History, Final Honours.—Class I, Ockley, Beatrice. Class II—Robinson, Mabel; Low, Constance; Meldrum, E. G.

Philosophy, Preliminary Honours.—Class I, Black, N. F.; McNab, G. G. Class III—Salisbury, C. C.; Stevenson, R. McK.; Ramsay, D. C.; Lynd, L. E.

Philosophy, Final Honours.—Class I, McConachie, J. C.; Nicol, J. L. Class II—Mulloy, L. W. R.

Philosophy, Honours (Partial Course).—Class I, Brown, G. A.; Solandt, D. M. Class II—MacInnes, W. H.

Political Science, Preliminary Honours.—Class II, McCallum, J. F.

Political Science, Final Honours.—Class I, Uglow, W. L.; May, H. P.; Platt, G. A. Class III—Fokes, A.

Mathematics, Preliminary Honours.—Class I, Henry, S. H. Class II—Ralston, G. D.; Macdonnell, A. D. Class III—Kingston, H. R.

Mathematics, Final Honours.—Class I, Coon, H. J.; Anning, N.; Asselstine, O.; Fairlie, .; Miller, Cora. Class III—McKay, J.

Physics, Preliminary Honours.—Class I, Cornell, M. L.; Dwyer, W. O.; Orr, W. J. Class II—Chant, W.; Smart, R. S. Class III—Houser, W. H.; Pomeroy, J. C.

Physics, Final Honours.—Class I, Campbell, A. L.; Pentland, G. E.

Physics, Experimental Honour.—Class I, Fetterly, H. B.; Speers, J. A.

Botany, Preliminary Honour.—Class I, Easson, R. C.; Gibson, J. W.; McMillan, G.; Ferguson, W. P.; Reynolds, Lillian M.; Froats, James; Forrester, J. W.

Botany, Final Honour.—Stead, J. H.

Animal Biology, Preliminary Honours.—Class I, MacMillan, G.; Voaden, J.; Wallace, W. G.; Goodfellow, T. J.; Gibson, J. A. Class II—Carmichael, D. A.; Huff, J. S.; Dunham, C. S. Class III—Kerr, Thomas, Reynolds, B. C., Robb, D.; Ellis, R. J.; Houstin, J. A.; Sprague, W. E.; Froats, J.

Animal Biology, Final Honours.—Class I, Usher, W. C.; Stead, J. H. Class III—Jordan, Dennis, Workman, Harold; Roberts, W. C.

Chemistry, Preliminary Honours.—Class I, Malcolm, Wyatt, Bowen, N. L.; Wallace, W. G.; Sine, F. L.; Voaden, A. Class II—Kidd, G. E.; White, H. T.; Goodfellow, T. J. Class III—Roberts, W. C.; Cornett, W. F.; McLellan, D.

Chemistry, Final Honours.—Class I, Malcolm, Wyatt; Usher, W. C.; Schofield, S. J.; Sine, F. L.; Hill, Jas. Class II—Williams, L. J.; Sharp, G. M.

Mineralogy, Preliminary Honours.—Class I, Bowen, N. L.; Turner, N. L.

Mineralogy, Final Honours.—Class I, Malcolm W.; Hill, Jas. Class II—Sharp, G. M.; Schofield, S. J.

General Geology, Preliminary Honours.—Class I, Malcolm, W. Class II—Sharpe, G. M., White, H. T., equal. Class III—Williams, L. J.

Geology of Canada, Preliminary Honours.—Class I, Malcolm, W. Class II—Sharpe, G. M., White, H. T., equal. Class III—Williams, L. J.

Ptrography I, Preliminary Honours.—Class I, Malcolm, W.; Sharpe, G. M. Class II—Hill, J.; White, H. T. Class III Schofield, S. J.; Williams, L. J.

Economic Geology I, Preliminary Honours.—Class I, Malcolm, W. Class II—Sharpe, G. M.; Hill, Jas.; White, H. T.; Schofield, S. Class III—Williams, L. J.

Geology, Final Honours.—Class II, White, H. T. Class III—Williams, L. J.

PRACTICAL SCIENCE.

SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1905.

Physics I, B.—Sweezey, R. O.; Fleming, A. A.; McCandless, I.

Mathematics I (Geometry).—McGinnis, T. A.; Agnew, C. W.

Mathematics I, Trigonometry.—Toffey, F. H.; Agnew, C. W.

Mathematics I, Algebra.—Cunningham, S. L.; McGinnis, T. A.; Toffey, F. H.

Descriptive Astronomy.—Fleming, A. G.; Toffey, F. H.

Mathematics II, Spher. Trig. and Astronomy.—Gillis, W. C.; Campbell, A. S.

Mathematics II, Conics and Calculus.—Sands, J. M.; Potter, R.; McEwen, R. L.; Trueman, J. D.; Connell, F. M.

Junior Chemistry.—Campbell, W. M.

Senior Chemistry.—Alder, W. R.; Bailie, A. A.; Flmeing, A. A.; Campbell, A. S.; Speirs, T.

Optical Mineralogy.—Sands, J. M.; Connell, F. M.; Gardner, K. V.

Pass Geology.—Clarke, T. E.; Cooper, A. B.; Barker, J.; McNabb, J.

Metallurgy I.—McEwen, D. F.; Weld, W. E.; McGinnis, W. C.

Electrical Engineering I.—Dobbs, G. G.; Connell, F. M.; Richardson, G. T.

Thermodynamics I.—Robertson, J. J.; Browne, P. J.; Dobbs, G. G.; Richardson, G. T.; Drummond, L. E.

Mechanical Engineering II.—Denovan, J.

General Engineering I.—Ostrom, S. A.; Speirs, T.; McArthur, F. T.; Alder, W. R.

General Engineering II.—Weld,W. E.; Bailie, A. A.; Denovan, J.

Surveying III.—Dobbs, G. G.; McGinnis, W. C.; Weld, W. E.

Surveying II.—Kilburn, D. G.; Campbell, A. S.; Fleming, A. G.; Alder, W. R.; Twitchell, K. S.

Surveying I.—Fleming, H.; Fleming, A. A.; Pound, R.; Fleming, J. E.; Cunningham, S. L.

Descriptive Geometry.—Bailie, A. A.; Gardner, K. V.; Browne, P. J.; Oswald, W. A.; McArthur, F. T.

SESSIONAL EXAMINATIONS, APRIL, 1906.

Junior English.—Div. I, Williams, T. B.; Williams, M. Y. Div. II—Carmichael, J. E.; Lawson, W. T.; Kelso, J.; Ebbern, T. W.; Perry, O. M.; Gilbert, C. G.; Osborne, J. K.; Bruce, E. L.; Simmons, G. A.; MacParland, A.; Macdowall, R. J.; Barnum, L. A. Div. III—Kilburn, G. H.; Young, A. C.; McIntosh, J. E.; Elliott, W. J.; Frost, E. A.; Hambly, W. R.; Peeling, C. W.; Sills, O.; Alder, W. R.; Nicol, D. S.;

Potter, S. C.; Woods, S. A.; Gorman, A.; Agassiz, W.; Ockley, R.; Campbell, T. D.; McKay, A.; Ryan, F. H.; Newlands, N.; Lyon, C. B.; Hayes, C. L.; Pennock, A. C.; George, G.; Scott, J. N.; O'Brien, W.; McEwen, R. L.; Squire, A. M.; Marshall, J. H.

Mathematics I, Algebra.—Div. I, Kelso, J.; Kilburn, G. H.; Crawford, V. W.; Bruce, E. L.; Carmichael, J. E.; Bothwell, N. D.; Ferguson, D.; Peeling, C. U.; Gilbert, C. G.; Williams, M. Y.; Elliott, W. J.; Drury, C. W.; Osborne, J. K.; Perry, O. M. Div. II—Wilkins, J. C.; Frost, E. S.; Williams, K. F.; Swinburn, A. H.; Young, A. C.; Campbell, T. D.; Lawson, W. E.; Simmons, G. A.; Nichol, D. S.; Williams, T. B.; Chartrand, E.; McDowall, R. J. Div. III—Sills, O.; Woods, S. A.; Hays, C. L.; Neilson, A. C.; Armstrong, A. E.; George, W. B. ;Lavell, F. M.; McIntosh, J. S.; Saint, J. B.; Ebbern, F. W.; Jenkins, G. A.; Newlands, N.; Ryan, F. H.; Scott, J. N.; McCandless, I.; Ockley, R.; Lowe, G. S.; Hambly, W. R.; MacKay, A.; Squire, A. M.; Jackson, G. W.; Fleming, J. E.; Lockett, W.; Stirling, J. B.; Collins, W.; Gardiner, K. M.; George, G.

Mathematics I, Geometry.—Div. I, Gilbert, C. G.; Williams, M. Y.; Perry, O. M.; Kelso, J. A.; Bruce, E. L.; Kilburn, G. H.; Carmichael, J. E. Div. II—Crawford, V. W.; Frost, E. S.; Scott, J. N.; Williams, K. F. Div. III—Peeling, C. U.; Ferguson, D.; Young, A. C.; Osborne, J. K.; Swinburn, A. H.; Elliott, W. J.; Drury, C. W.; Ryan, F. H.; Agassiz, W.; McIntosh, J. S.; Nichol, D. S.; Bothwell, N. D.; Chartrand, E.; Woods, S. A.; Ebbern, F. W.; Simmons, G.; Jenkins, G. A.; Squire, A. M.; Hays, C. L.; McDowall, R. J.; Barnum, L. A.; George, W. B.; Lawson, W. E.; Lockett, W.; Newlands, N.; Campbell, T. D.; Hambly, W. R.; Neilson, A. C.; Stirling, J. B.

Mathematics I, Trigonometry.—Div. I, Carmichael, J. E.; Kelso, J. A.; Bruce, E. L.; Gilbert, C. G.; Ferguson, D.; Kilburn, G. H.; Williams, M. Y.; Crawford, V. W.; Nichol, D. S.; Williams, K. F.; Wilkins, J. C.; Frost, E. S.; Elliott, W. J.; Drury, C. W. Div. II—Bothwell, N. D.; Lawson, W. E.; Perry, O. M.; Chartrand, E.; Ryan, F. H.; Simmons, G. A.; Peeling, C. U.; Young, A. C.; Jenkins, G. A. ;Osborne, J. K.; Hays, C. L.; Woods, S. A.; Campbell, T. D.; Scott, J. N. Div. III—George, G.; Scott, A. W.; Ockley, R.; Agassiz, W.; Jackson, G. W.; Stirling, J. B.; McKenzie, R. M.; Lowe, G. S.; Swinburn, A. H.; Newlands, N.; Lockett, W.; MacKay, A.; Barnum, L. A.; Fleming, J. E.; McIntosh, J. S.; Hambly, W. R.; Callander, R.; Gorman, A.; Neilson, A. C.; George, W. B.; Ransom, T.; Sills, O.; Squire, A. M.; Ebbern, F. W.; Gardiner, K. M.; McDowall, R. J.; Pennock, E. L.; Saint, J. B.; Williams, T. B.; Birkett, E. H.; Armstrong, A. E.

Astronomy I.—Div. I, Bruce, E. L.; Kelso, J. A. Div. II.—Gilbert, C. G.; Williams, M. Y.; Carmichael, J. E.; Ferguson, D.; Lawson, W. E.; Perry, O. M.; Jenkins, G. A.; Swinburn, A. H.; Bolton, L. L.; Frost, E. S.; McDowall, R. J.; Bothwell, N. D.; Watson, A. R.; Kilburn, G. H.; Chartrand, E.; Wilkins, J. C.; Fleming, D. B.; Osborne, J. K.; Williams, T. B. Div. III—Fleming, A. A.; MacKay, A.; Elliott, W. J.; Ockley, R.; Crawford, V. W.; Peeling, C. U.; Ebbern, F. W.; Agassiz, W.; George, W. B.; Newlands, N.; Ransom, F.; Young, A. C.; Simmons, A. C.; McIntosh, J. S.; Woods, S. A.; MacParland, A.; Barnum, L. A.; Ryan, F. H.; Dempster, H.; Saint, J. B.; Hays, C. L.; Nicol, D. S.; Birkett, E. H.; Bowen, G. H.; Callander, R.; Holbrook, C. H.; McGinnis, T. A.; Stirling, J. B.; Scott, J. N.; Collins, W.; Campbell, T. D.; Squire, A. M.; Gorman, A.; Pennock, E. L.; Williams, K. F.; McKenzie, K. M.

Mathematics II.—Div. I, McColl, C. R.; Findlay, A.; Stidwell, F.; Cummings, A. Div. II—Pringle, J. F.; Daley, J. C.; Rockwell, D. B.; McKay, B. F.; Jeffery, R. T. Div. III—Jeffery, J. J.; Norrish, B. E.; Orford, C.; Campbell, A. S.; Brown, C. D.; Dempster, H.; Fleming, D. B.; Stott, J.; Irwin, R. T.; Richmond, D. W., Kilburn, D. G.; Ostrom, S. A.; Murphy, A. A.; Sweezey, R. O.; Baker, F. G.; McArthur, F. F.; McEachran, J. J.; Harding,W. M.; Milliken, J. B.; Marshall, J.; Fleming, H.; Cordukes, J. P.; McCandless, I.; Code, E. S. L.; Stewart, A. G.; Saunders, H. C.; Gleeson, L.

Spherical Trigonometry and Astronomy.—Div. I, McColl, C. R.; Cummings, A.; Stidwell, F.; Findlay, A.; Rockwell, D. B.; Jeffery, R. T. Div. II—Orford, C.; Jeffery, J. J.; Pringle, J. F. Div. III—Stott, J.; Richmond, D. W.; Agnew, C. W.; McEachran, J. J.; McEwen, D. F.; McKay, B. R.; Code, E. S. L.; Stewart, A. G.; Sweezey, R. O.; Harding, W. M.; Baker, F. G.; Norrish, B. E.; McCandless, I.; Peppard, H.; Campbell, W. M.; Marshall, J. H.; Denovan, J.; Fleming, D. B.; Cooper, R. H.

Physics I (A), Dynamics and Properties of Matter.—Div. I, Kilburn, G. H.; Gilbert, C. G.; Kelso, J. A.; Ferguson, D., Williams, T. B., equal; Williams, M. Y., Jenkins, G. A., equal; Nicol, D. S., Carmichael, J. E., equal; Crawford, V. W., Peeling, C. U., equal; Osborne, J. K., Hambly, W. R., Watson, A. R., equal; Elliott, W. J.; Hays, C. L.; Lawson, W. E.; Bothwell, N. D., Daley, J. C., equal; Perry, O. M.; Bruce, E. L., Frost, E. S., Woods, S. A., equal. Div. II—Ransom, F.; Chartrand, E., Simmons, G. A., equal; Ebbern, T. W.; Ocklev, R. F.; Ryan, F. H., Stirling, J. B., equal; Jackson, G. W.; Campbell, T. D., Scott, Jas. N., equal; Agassiz, W.; Young, A. C.; Fleming, D. B.; Drury, C. W.; Neilson, A. C. Div. III—Saint, J. B.; Scott, A. W.; Wilkins, J. C.; Lavell, F.;

Cordukes, J. P.; MacKay, A. A.; Sills, O.; McDowall, R. J.; Lowe, G. S., McIntosh, J. S., Williams, K. F., equal; Fleming, J. E.; Squire, A. M., Dunkley, J. B., equal.

Physics I (B), Experimental.—Div. I, Williams, M. Y.; Kilburn, G. H.; Carmichael, J. E.; Kelso, J. A.; Daley, J. C.; Williams, T. B.; Agassiz, W.; Ferguson, D.; Nicol, D. S. Div. II—Frost, E. S.; Osborne, J. K.; Woods, S. A.; Peeling, C. U.; Bruce, E. L.; Gilbert, C. G.; Simmons, A.; Perry, O. M.; Lawson, W. E.; Ockley, R. F. Div. III—Chartrand, E.; Scott, James N.; McDowall, R. J.; Ebbern, T. W.; Jenkins, G. A.; Crawford, V. W.; Stirling, J. B.; Jackson, G. W.; Ransom, F.; Hambly, W. R.; Watson, A. R.; Elliott, W. J.; Young, A. C.; Campbell, T. D.; Squire, A. M.; Williams, K. F.; Hays, C. L.; Ryan, F. H.; Bothwell, N. D.; Drury, C. W.; Dunkley, J. B.; MacKay, A. A.; Saint, J. B.; Wilkins, J. C.; Barnum, L. A.; Houston, D. W.; Gorman, A.; Dempster, H.; Sills, O.; Lowe, G. S.

Physics II.—Div. I,McColl, C. R.; Findlay, A.; Pringle, J. F.; Cummings, A.; Rockwell, D. B.; Harding, W. M.; Stiles, L. P.; Jeffery, R. T.; Stidwell, F. Div. II—Jeffery, J. J.; Stott, J.; Wright, G. C.; Marshall, J. H. G.; Norrish, B. E.; McKay, B. R.; Gillis, W. C.; Murphy, A. A.; Sweezey, R. O. Div. III—McEachern, J. J.; Orford, C.; Richmond, D. W.; Brown, C. D.; Baker, F. G.; Gleeson, L.; Brown, E. W.; Ostrom, S. A.; Agnew, C. W.; Stewart, A. G.; Milliken, J. B.; Arthur, A. J.; Twitchell, K. S.; McGinnis, W. C.

Physics III.—Div. I, Stott, J.; Fleming, D. B.; Jeffery, R. T. Div. II—Murphy, A. A.; Marshall, J. H.; Jeffery, J. J.; Baker, F. G.; McCandless, I. Div. III—Richmond, D. A.; Norrish, B. E.; Stiles, L. P.; Arthur, A. J.

Physics IV.—Div. III, Finnie, H. V.; Pinkerton, W. A.

Junior Chemistry.—Div. I, Carmichael, J. E.; Bruce, E. L.; Gilbert, C. G., Kilburn, G. H., equal; Perry, D. M.; Williams, M. Y.; Osborne, J. K.; Wilkins, J. C., Drury, C. W., equal; Ryan, N. H., George, W. B., equal; Campbell, T. D., Kelso, J. A., Nichol, D. S., Ockley, R., Woods, S. A., equal; Jenkins, G. A., Elliott, W. J., equal; Agassiz, W., Frost, E. S., Peeling, C. U., equal. Div. II—Lawson, W. E., Ransom, F., equal; Young, A. C.; Brown, C. D., Gorman, A., Simmons, G. A., equal; George, G.; Hayes, C. L.; Jackson, Geo. W.; Williams, T. B.; Scott, A. W.; McDowall, R. J.; Lockett, W. F.; Scott, Jas. N.; Ebbern, T. W.; Bowen, G. H.; Newman, F. L.; Newlands, N.; MacKay, A. A.; MacParland, A. Div. III—McIntosh, J. S.; Lowe, G. S.; Gardiner, K. M.; Neilson, A. C.; Squire, A. M.; O'Brien, W. E.; McKenzie, R. M.; Cunningham, S. L.; Sills, O.; Hubbard, W. H.

Senior Chemistry.—Div. I, McColl, C. R.; Orford, C.; Findlay, A., McKiel, H. W., equal; Stidwell, F. Div. II—Cummings,

A.; Hambly, W. R.; Stewart, A. G.; Harding, W. M., Rock-Well, D. B., equal; Jeffery, R. T.; Crawford, V. W.: Browne, P. J.; Campbell, W. M.; McEachern, J. J.; McKay, B. R.; Jeffery, J. J.; Richmond, D. W. Div. III—Sweezey, R. O.; Fleming, D. B.; Cordukes, J. P.; Marshall, J. H. G.; McGinnis, T. A., Watson, A. R., equal; McCandless, I.; Milliken, J. B.; Norrish, B. E.; Stott, Jas.; Agnew, C. W.; Brown, C. D.; Fleming, H.; Pennock, E. L.; Baker, F. G.; Saunders, H. C.

Qualitative Analysis.—Div. I,Rockwell, D. B.; King, S., Sands, J. M., Trueman, J. D., equal; Pennock, E. L. Div. II—Jeffery, R. T.; Alder, W. R.; McEachern, J. J., Murray, C. W., Norrish, B. E., Orr, F. O., Richmond, D. W., Harding, W. M., equal; McCandless, I.; Twitchell, K. S. Div. III—Jeffery, J. J.; McKay, B. R.; Bailie, A. A., Fleming, H., Pound, R., Stott, J., equal; Brown, E. W., Fleming, D. B., equal; Marshall, J. H. G.

Quantitative Analysis I.—Div. I, Sands, J. M.; McKay, G. J.; McEwen, D. F.; Murray, C. W.; Matheson, H.; Akins, J. R.; McLaren, G. R. Div. II—Houston, D. W.; Orr, F. O. Div. III—Irwin, R. F.; Curtin, C. J.

Quantitative Analysis II—Div. II, Akins, J. R. Div. III—Matheson, H.

Quantitative Analysis I, II, III.—Div. I, Bolton, L. L.

Physical Chemistry I.—Div. II, Bolton, L. L. Div. III—Fleming, A. A.

Physical Chemistry II.—Div. I, Lennox, J. S.; Code, L. B.; Berney, K. C.; Millar, T. R. Div. II—Pinkerton, W. A.; Speers, T.; Finnie, H. V.

Descriptive Determinative Mineralogy.—Div. I, McKay, G. J. Div. II—Matheson, H.; Fleming, A. A. Div. III—Sands, J. M.; Twitchel, K. S.; Alder, W. R.; McLaren, G. R.; Akins, J. R.; Irwin, R. T.; Lleming, A. G.; Woolsey, W. J.; Gardner, K. V.; Murray, C. W.; Curtin, C. J.; Orr, F. O.; Connell, F. M.; Houston, D. W.

Systematic Mineralogy.—Div. I, King, S.; Fleming, A. A.

Elementary Mineralogy and Blowpipe Analysis.—Div. I, King, S.; Rockwell, D. B. Div. II—Orford, C.; McKay, B. R.; Stewart, A. G. Div. III—McEachern, J. J.; Campbell, W. M.; Harding, W. M.; Cordukes, J. P.; Milliken, J. B.

Optical Mineralogy.—Div. I, King, S.; McKay, B. R.; Orford, C.; Brown, E. W. Div. II—Harding, W. M.; Rockwell, D. B.; Stewart, A. G. Div. III—Campbell, W. M.; Cordukes, J. P.; Milliken, J. B.

Geology I.—Div. I, McColl, C. R.; Findlay, A.; Cummings, A.; Rockwell, D.; Stidwell, F.; Pringle, J. F. Div. II—McKay, R. B.; Orford, C.; Sweezey, R. O. Div. III—Malcolm, L.; Agnew, C.; Saunders, H. C.; Harding,W. N.; McEachern, J. J.; McGinnis, T.; Brown, C. D.; Campbell, W. M., Watson, A. R., equal; Cunningham, S. L.

Geology II.—Div. I, King, S.; Matheson, H.; Thornton, L. A. Div. II—McKay, G. J.; Akin, J. R.; Sands, J. M.; Fleming, A. A. Div. III—Robertson, J. J.; Orr, F. O.; McLaren, G. R.; Irwin, R. T.; Gardner, K. V.; Murray, C. W.; Twitchell, R.

Geology of Canada.—Div. I, McKay, G. J.; Matheson, H.; Thornton, L. A.; Houston, D. W.; Robertson, J. J.; Orr, F. O.; King, S. Div. II—Alder, W. R.; McLaren, G. R., Sands, J. M., equal; Akin, J. R.; Irwin, R. T.; Murray, C. W.; Twitchel, K. S.; Fleming, A. G.; Fleming, A. A. Div. III—Gardner, K. V.; McGinnis, W. C.; Curtin, C. J.; Woolsey, W. J.

Economic Geology I.—Div. I, McKay, G. J.; Matheson, H. Div. II—McLaren, G. R.; Sands, J. M.; King, S.; Fleming, A. A. Div. III—Orr, F. O.; Trueman, J. D.; Akin, J. R., Twitchel, K. S., equal; Houston, D. W.; Alder, W. R.; Brown, E. W.; Murray, C. W.; Woolsey, W. J.

Economic Geology II.—Div. I, Timm, W. B. Div. II—Shorey, P. M.; Robertson, J. J.; Dobbs, G. G. Div. III—Richardson, G.; Connell, F. M.; McEwen, D. F.; Carr-Harris, A.

Petrography I.—Div. I, Matheson, H.; McKay, G. J.; King, S.; Fleming, A. A. Div. II—Twitchel, K. S.; Sands, J. M.; McLaren, G. R.; Orr, F. O. Div. III—Akin, J. R.; Woolsey, W. J.; Connell, F. M.; Irwin, R. T.; Houston, D. W.; Alder, W. R.; Fleming, A. G.; Murray, C. W.; Curtin, C. J.

Geology, Field Work and Mapping.—Div. I, King, S.; Twitchel, K. S. Div. II—Fleming, A. A.

Topographical Surveying.—Div. I, Twitchel, K. S.; King, S. Div. III—Fleming, A. G.

Thermodynamics I.—Div. I, Sands, J. M. Div. II—Brown, E. W.; Jenkins, W. E.; McKay, J. G.; Malcolm, L. Div. III—Herriott, G. H.; Matheson, H.; Rogers, W. R.; Calvin, J. D.; Akins, J. R.; Germain, H. A.; Stiles, L. P.; Gleeson, L. J.; McKenzie, M.; Oswold, W. A.; Curtin, C. J.; King, J. L.; Murphy, A. A.; Peppard, H.; Fleming, A. W.; Murray, C. W.; McEwen, D. F.; Kilburn, D. G.; Irwin, R. T.; Ostrom, S. A.

Thermodynamics II.—Div. I, Lennox, J. S. Div. II—Berney, K. C.; Finnie, H. V. Div. III—Millar, T. R.; Code, L. B.; Baillie, A. A.; Pinkerton, W. A.

General Engineering I.—Div. I, Malcolm, L.; McColl, C. R.; Findlay, A.; Jeffery, J. J.; McEachern, J. J.; Pringle, J. F. Div. II—Stiles, L. P.; Cummings, A.; Stidwell, F.; Harding, W. M.; Norrish, B. E.; Baker, F. G.; Stewart, A. G. Div. III—Arthur, A. J.; Jeffery, R. T.; Orford, C.; Irwin, R. T.; Germain, H.; Milliken, J. B.; Saunders, H. C.; Trueman, J. D.; Rockwell, D. B.; Grenon, J. F.; Gillis, W. C.; Fleming, D. B.; Dempster, H.; Campbell, W. M.; Brown, C. O.; Cooper, R. H.; Lavell, F. M.; Stott, J.; McKay, B. R.; Sweezey, R. O.

General Engineering II.—Div. I, McKay, T. J.; Jenkins, W. E.; Herriott, G. .; Malcolm, L.; Matheson, H.; King, J. L.; Calvin, J. D. Div. II—Sands, J. M.; Dobbs, G. G.; McKenzie, M.; Code, L. B.; Shaver, P. A.; Rogers, W. R.; Murphy, A. A.; Potter, R.; Akins, J. A.; Germain, H .A.; Campbell, A. S.; Murray, C. W. Div. III—Stiles, L. P.; Lazier, F. S.; Woolsey, W. J.; Wright, G. C.; Curtin, C. J.; Peppard, H.; Irwin, R. T.; McLaren, G. R.; Gleeson, L.; Orr, F. O.; Connell, F. M.; Kilburn. D.; Richardson, G. T.; Pinkerton, L. A.; McArthur, F. J.; Alder, W. R.; Houston, D. W.; Ostrom, S. A.; Browne, P. J.; Code, E. S. L.; McEwen, D. F.; Twitchel, K. S.

Engineering Field Work I.—Div. I, Herriot, G. H.; Murray, C. W.; Rogers, W. R.; Jenkins, W. E.; Dobbs, G. G., Malcolm, L., equal; McKenzie, M., Pringle, J. F., Shorey, P. M. equal; Alder, W. R., Lazier, S., Matherson, H., equal; Houston, D.; W.; McKay, G. J.; Calvin, J. D., Gardner, K. W., equal; Woolsey,W. J.; Gillis, W. C.; Curtin, C. J., Orr, F. O., equal; Fleming, A. G., Peppard, H., equal; Rice, F.; Sands, J. M.; Campbell, A. S.; McGinnis, W. C.; Connell, F. M. Div. II—Richardson, G. T.; Kilburn, D. T.

Engineering Field Work III.—Div. I, Herriot, G. H.; Rogers, W. R.; King, J. L.; McCulloch, R. Div. II—Thornton, L. A.; Lazier, F. S.; McKenzie, M.; Potter, R. Div. III—Grenon, J. F.

Railway Engineering I.—Div. I, Calvin, J. D.; Potter, R.; Pringle, J. F.; Herriott, G. H.; Peppard, H.; McKenzie, M.; McCulloch, R. Div. II—Malcolm, L.; Ostrom, S. A.; Jenkins, W. E.; Wright, G. C.; Lazier, F. S.; Kilborn, D. G.; King, J. L.; Lavoie, E. Div. III—Gillis, W. C.; Campbell, A. S.

Railway Engineering II.—Div. I, Malcolm, L.; Rogers, W. R.; Calvin, J. D. Div. II—McEwen, D. F.; Kilborn, D. G.; Jenkins, W. E.; Potter, R. Div. III—Gillis, W. C.

Railway Engineering III.—Div. II, Rogers, W. R.; Thornton, L. A.

Municipal Engineering.—Div. I, Herriot, G. H.; Thornton, L. A.; King, J. L. Div. II—Rogers, W. R.; McKenzie, M.; McCulloch, R.; Potter, R.; Lazier, F. S.

Electrical Engineering I.—Div. I, Calvin, J. D.; Jenkins, W. E.; Herriot, G. H. Div. II—Curtin, C. J.; King, J. L.; McKenzie, M.; Sands, J. M.; Macolm, M.; Wright, G. C.; Murphy, A. A.; Houston, D. W. Div. III—McLaren, G. R.; Ostrom, S. A.; Potter, R.; Alder, W. R.; Norrish, B. E.; Lavoie, Ed.; Akins, J. R.; McArthur, F. T.; Code, E. S. L.; Brown, E.W.; Grenon, J. F.; Peppard, H.; Murray, C. W.; Germain, H. A.; Arthur, A. J.; Lazier, F. S.; Kilburn, D. G.; Gleeson, L. J.

Electrical Engineering II.—Div. III, Code, E. S. L.; Murphy, A. A.; Oswold, W. A.

Electrical Engineering III.—Div. I, Murphy, A. A. Div. II—Oswold, W. A.

Electrical Engineering IV.—Div. I, Lennox, J. S. Div. II—Berney, K. C.; Code, L. B.; Smyth, W. L. Div. III—Finnie, H. V.; Millar, T. R.; Pinkerton, W. A.

Electrical Engineering V.—Div. I, Berney, K. C. Div. II—Millar, T. R.; Lennox, J. S.; Code, L. B. Div. III—Finnie, H. V.; Pinkerton, W. A.

Electrical Engineering VI.—Div. I, Berney, K. C. Div. II—Lennox, J. S.; Finnie, H. V.; Millar, T. R. Div. III—Smyth, W. L.; Code, L. B.; Spiers, T.; Pinkerton, W. A.

Hydraulics I.—Div. I, Calvin, J. D.; Herriot, J. H.; Jenkins, W. E.; McCulloch, R.; Berney, K. C.; Millar, T. R.; King, J. L.; Richardson, G. T.; Rogers, W. R. Div. II—Dobbs, G. G.; Lennox, J. S.; Timm, W. B.; Peppard, H.; Lazier, F. S.; Code, L. B.; McKenzie, M.; Ostrom, L. A.; Carr-Harris, A.; Robertson, J. J. Div. III—Keith, G. C.; Malcolm, L.; McArthur, F.; Wright, G. C.; McEwen, D. F.; Connell, F. M.; Potter, R.; Finnie, H. V.; Lavoie, E.; Shaver, P. A.; Brown, E. W.; Pinkerton, W. A.; Campbell, A. S.; Brown, P. J.; Kilburn, D. G.; Shorey, P. M.; Bailie, A. A.

Hydraulic Engineering III.—Div. I, Rogers, W. R.; Thornton, L. A. Div. II—McEwen, D. F.

Hydraulic Engineering IV.—Div. I, Thornton, L. A. Div. III—Grenon, J. F.

Structural Engineering I.—Div. I, Herriot, G. H.; Jenkins, W. E.; McKenzie, M.; Malcolm, L.; Wright, G. C.; Campbell, A. S.; Potter, R.; King, J. L.; Rogers, W. R.; Kilborn, D. G.; Calvin, J. D. Div. II—Peppard, H.; Lazier, F. S.; Gillis, W. C.; Grenon, J. F.; Lavoie, E.; McCulloch, R.; McArthur, F. T. Div. III—Ostrom, S. A.

Structural Engineering II.—Div. I, Thornton, L. A.

Structural Engineering III.—Div. I, Thornton, L. A.; Grenon, J.F.

Mechanical Engineering I.—Div. II, McEwen, R. L. Div. III—Brown, P. J.; Oswald, W. A.; Germain, H. A.; Murphy, A. A.; Lavell, F. M.; Stiles, L. P.; Gleeson, L.; Code, E. S.

Mechanical Engineering II.—Div. II, Murphy, A. A.; Stiles, L. P. Div. III—Gleeson, L.; Code, E. S.; Keith, G. C.

Mechanical Engineering III.—Div. II, Lavell, F. M.; Gleeson, L. J.

Mechanical Engineering V.—Div. III, Keith, G. C.; Baillie, A. A.

Mechanical Engineering VI.—Div. III, Baillie, A. A.

Mechanical Engineering IV.—Div. I, Lennox, J. S.; Code, L. B.; Berney, K. C.; Finnie, H. V.; Timm, W. B.; Millar, T. R.; Keith, G. G.; Robertson, J. R. Div. II—Spiers, T.; Shorey, P. M.; Thornton, L. A.; Dobbs, G. G.; Baillie, A. A.; Pinkerton, W. A.; Richardson, G.; Malloch, G. S. Div. III—Connell, F. M.; Carr-Harris, A.

Mechanism.—Calvin, J. D.; Herriot, G. H.; Germain, H. A.; McEwen, D. F.; Malcolm, L.; King, J. L.; McKay, G. J.; Murphy, A. A.; Brown, E. W.; Jenkins, W. E.; Curtin, C. J.; Matheson, H.; Murray, C. W.; Brown, P. J.; McArthur, F.; Woolsey, W. J.; Sands, J. M.; Irwin, R. T.; Kilburn, D. G.; Rogers, W. R.; Potter, R.; Aikins, J. R.; Wright, G. C.; Lazier, F. S.; Orr, F. O.; Trueman, J. D.; Oswald, W. A.; Denovan, J.; Campbell, A. S.; McLaren, G. R.; Carr-Harris, A.; Twitchel, K. S.; Peppard, H.; McGinnis, W. C.; Alder, W. R.; Houston, D. W.; Lavoie, E.; Arthur, A. J.; McKenzie, M.; Grenon, J. F.; Gillis, W.; Gleeson, L.; Ostrom, S. A.; Fleming, A. G.

Descriptive Geometry.—Div. I, McColl, C. R.; Baker, F. G.; Findlay, A.; Malcolm, L.; Harding, W. M.; Cummings, A.; Stott, J.; Rockwell, D. B. Div. II—Stidwell, F.; Jeffery, R. T.; Orford, C.; Pringle, J. F.; McKay, B. W.; Milliken, J. B.; Marshall, J.; Norrish, B. E.; Richmond, D. W. Div. III—Ostrom, S. A.; Jeffery, J. J.; Agnew, C. W.; Watson, A. R.; Connell, F. M.; Sweezey, R. O.; Brown, C. D.; Trueman, J. L.; McCandless, I.; McGinnis, W. C.; Thornton, L. A.; Cordukes, J. P.; Jenkins, W. E.; Fleming, D. B.; Richardson, G. T.; McEachern, J. J.; Speirs, T.; McGinnis, T. A.

Drawing I.—Div. I, Wilkins, J. C.; Lawson, W. E.; Scott, J. N.; Williams, T. B.; Malcolm, L.; Davidson, R.; Hubbard, W. H.; Williams, M. Y.; Hays, C. L.; Carmichael, J. E.; Jackson, G. W.; Sills, O.; Ferguson, D.; Gilbert, C. G.; Hambly, W. R.; Saint, J. B. Div. II—Neilson, A. C.; Ostrom, J. K.; Nicol, D. S.; Ockley, R.; Young, A. C.; Campbell, J. E.; Peeling, C. U.; McDowall, R. G.; Ebbern, T. W.; McParland, A. J.; Kilburn, G. H.; Strothers, J. H.; Jenkins, G. A.; Elliott, W. J.; Kelso, J. A.; McIntosh, J. S.; Lowe, G. S.; Perry, O. M.; Bowen, G. H.; Goodwin, W. M.; O'Brien, W. E.; Watson, A. R.; Wiliams, C. W.; Roberts, W. H.; Collins, W. H. E.; Woods, S. A.; Simmons, G. A.; Newlands, N.; McKenzie, R. M.; Gorman, A.; Findlay, A.; Bruce, E. L.; Frost, E.S.; George, G.; Armstrong, A. E.; Gardiner, K. M. M.; George, W. B.; Walker, H. W.; Ryan, F. H.; McKay, A. A.; Barnum, L. A. Div. III—Lockett, W.; Hope, A.; Holbrook, C. H.; Drury, C.W.; Ransom, F.; Agassiz, W. G. S.; Laturney, F.; Callander, R.; Chartrand, E.

Drawing II.—Div. I, Findlay, A.; Jeffery, R. T.; Jeffery, J. J.; Stott, Jas.; Baker, F. G.; Harding, W. M.; Marshall, J. H.; Norrish, B. E.; McCandless, I.; Houston, D. W.; McKay, B. R.; Malcolm, L.; Bennett, J. Div. II—McColl, C. R.; Davidson, R. A.; Orford, C.; Agnew, C. W.; Trueman, J. D.; Birkett, E. H.; Stidwell, F.; Stewart, A. G.; Cummings, A.; McEachern, J. J.; Sweezey, R. O.; Richmond, D. W.; Cunningham, S. L.; Arthur, A. J.; Saunders, H. C. Div. III—

Dupuis, E. L.; Fleming, D. B.; Fleming, A. G.; Fleming, H.; McGinnis, T. A.; Fleming, J. E.; Cordukes, J. P.; Pound, R.; Pringle, J. F.; Demster, H.; Milliken, J. B.; Campbell, W. M. Rockwell, D. B.; Brown, C. D.

Drawing, III.—Div. I, Findlay, A.; Jeffery, R. T.; Jeffery, J. J.; Stott, Jas.; Baker, F. G.; Marshall, J. H.; Norrish, B. E.; McCaudless, I. Div. II—Malcolm, L.; Bennett, J.; McColl, C. R.; Davidson, R. A.; Agnew, C. W.; Stidwell, F.; Cummings, A.; Sweezey, R. O.; Richmond, D. W. Div. III—Arthur, A. J.; Saunders, H. C.; Fleming, D. B.; Fleming, H.; McGinnis, T. A.; Pound, R.; Pringle, J. F.; Dempster, H.; Brown,C.D.

Drawing IV.—Div. I, Jeffery, R. T.; Jeffery, J. J.; Baker, F. G.; Stott, Jas. Div. II—Marshall, J. H.; Norrish, B. E.; McCaudless, I.; Richmond, D. W.; Bennett, J. Div. III—Arthur, A. J.; Fleming, D. B.; Fleming, H.; Pound, R.; Lavell, F. M.

Surveying I.—Div. I, Bothwell, N. D.; Ferguson, D.; Carmichael, J. E.; Goodwin, W. M.; Perry, O. M.; Chartrand, E.; Trueman, J. D.; Gilbert, C. G.; Jenkins, G. A.; Williams, M. Y.; Campbell, T. O.; Lawson, W. E.; Sills, O.; Osborne,J. K.; Williams, T. B.; Kilburn, G. H.; Malcolm, L.; Ockley, R.; Bolton, T. T.; Bruce, E. L.; Elliott, W. J.; Drury, C. W.; Peeling, C. W.; Simmons, G. A.; Dunkley, J. B.; Ebbern, T.; W.; Bowen, G. H.; George, W. B.; Nicol, D. S. Div. II—Newlands, N.; Scott, J. N.; Hays, C. L.; Kelso, J. N.; Callander, R.; Woods, S. A.; McDowall, R. J.; Ransom, F.; Wilkins, J. A.; Agassiz, W.; Lockett, W.; Squire, A. M.; Hope, A.; Jackson, G. W.; Macparland, A.; Frost, E. G.; Hubbard, W. H.; Armstrong, A. E.; Bailie, A. A.; Gorman, A.; Saint, J. B.; Barnum, L. A.; Lyon, C. D.; O'Brien, W. E. Div. III—George, G.; Hambly, W. R.; McIntosh, J. S.; Lowe, G. S.; Ryan, N. H.; Young, A. E.; Neilson, A. C.; Williams, J. L.; Gardner, K. M.; Elliot, R. A.; McKay, A.; Collins, W.

Surveying II.—Div. I, Findlay, A.; Malcolm, L.; Cummings, A.; McColl, C. R.; Stidwell, F.; Bothwell, M. D.; Pringle, J. F.; Trueman, J. D. Div. II—McCullough, R.; Brown, C. D.; Orford, C.; Dempster, H.; Rockwell, D. B.; Brown, E. W.; Sweezey, R. O.; Cooper, R. H.; McEachern, J. J.; Saunders, H. C.; McKay, B. R.; Milliken, J. B. Div. III—Harding, W. M.; Stewart, A. G.; Campbell, W. M.; McGinnis, T. A.; Roberts, W. H.; Agnew, C. W.; Gardner, K. V.; Birkett, E. H.; Cunningham, T. L.

Surveying IV.—Div. I, Herriott, G. H.; Matheson, H.; Rogers, W. R.; Calvin, J. D.; McKenzie, M.; McKay, G. J.; King, J. L.; Jenkins, W. E.; Lazier, F. S.; Akins, J. R.; Orr, F. O.; Sands, J. M.; Wright, G. C.; Alder, W. R.; Lavoie, E.;

Brown, E. W.; Kilburn, D. G.; McLaren, G. R.; McCullough, R.; Murray, C. W. Div. II—Ostrom, S. A.; Peppard, H.; Houston, D. W.; Campbell, A. S.; McArthur, F. T.; Grenon, J. F.; Gardner, K. V.; Gillis, W. C.; Curtin, C. J.; Woolsey, W. J.; Twitchel, K. S.; Irwin, R. H.

Surveying V.—Div. I, Herriott, G. H.; Rogers, W. R.; Calvin, J. D.; McKenzie, M.; King, J. L.; Jenkins, W. E.; Lazier, F. S.; Wright, G. C.; Lavoie, E.; Kilburn, D. G.; McCulloch, R.; Ostrom, S. A. Div. II—Peppard, H.; Campbell, A. S.; Grenon, J. F.; McArthur, F.; Gillis, W. C.

Explosives and Cements.—Div. I, Herriot, G. H.; McKenzie, M.; Malcolm, L.; Wright, G. C.; Jenkins, W. E.; Rogers, W. R.; Lazier, F. S.; Lavoie, E.; Peppard, H.; Campbell, A. S.; King, J. L. Div. II—McCulloch, R.; Potter, R.; Kilborn, D. G.; Calvin, J. D.; Gillis, W. C. Div. III—Grenon, J. F.

Surveying III.—Div. I, Malcolm, L.; Findlay, A.; Saunders, H. C.; McCulloch, R.; Cumming, A.; McColl, C. R. Div. II—Stidwell, F.; Brown, C. D.; Cunningham, S. L.; Pringle, J. F.; McGinnis, T. A.; Dempster, H.; Agnew, C. W.; Sweezey, R. O.

Milling.—Div. I, Robertson, J. J.; Shorey, P. M.; Carr-Harris, A.; Dobbs, G. G.; Connell, T. M.; Timm, W. B. Div. II—Richardson, G. T.; Woolsey, W. J.

Mining I.—Div. I, McKay, G. W.; Matheson, H.; Akin, J. R.; Curtin, C. J.; Orr, F. O., Sands, J. L., equal. Div. II—Twitchel, K. L.; McLaren, G. R.; Murray, C. W.; Houston, D. W., Irwin, R. T., equal. Div. III—Brown, E. W., Gardner, K. V., equal; Alder, W. R.; Woolsey, W. J.; Fleming, A. G.

Mining II.—Div. II, Shorey, P. M.; Dobbs, G. G.; Connell, F. M.; McEwen, D. F.; Timm, W. B.; Robertson, J. J.; Carr-Harris, A.; Richardson, G. T.

Mining Designing.—Div. I, Shorey, P. M., Timm, W. B., equal. Div. II—Dobbs, G. G.; Connell, T. M.; Robertson, J. J.; Carr-Harris, A. Div. III—Richardson, G. T.

Metallurgy I.—Div. I, McKay, G. J.; Matheson, H.; Herriot, G. H.; Jenkins, W. E.; King, J. L.; Malcolm, L. Div. II—Sands, J. M.; Akins, J. R.; McKenzie, M.; Orr, F. O., Peppard, H., equal; McCulloch, R.; Twitchel, K. S., Wright, G. C., equal; Murray, C. W.; Brown, E. W. Div. III—Calvin, J. D.; Bailie, A. A.; Potter, R.; Alder, W. R.; Thornton, L. A.; Campbell, A. S., Kilburn, D. G., equal; Houston, D. W.; Curtin, C. J., Lavell, F. M., equal; Irwin, R. T., Lazier, F. S., McArthur, F. T., equal.

Metallurgy II.—Div. I, Timm, W. B. Div. II—Richardson, G.; Dobbs, G. G.; Carr-Harris, A.; Robertson, J. J.; Shorey, P. M.; Connell, F. M.

Electro-Metallurgy.—Div. I, Finnie, H. V.; Lennox, J. S.; Miller, T. R. Div. II—Pinkerton, W. A.; Berney, K. C.; Code, L. B. Div. III—Speirs, T.; Browne, P. J.

Ore Dressing.—Div. I, McKay, G. J.; Matheson, H.; Sands, J. M.; Murray, C.; Akins, J. R. Div. II—Brown, E. W.; Orr, F. O.; McLaren, G. R.; Connell, F. M. Div. III—Irwin, R. T.; Curtin, C. J.; Gardner, K. V.; Alder, W. R.; Houston, D. W., Twitchel, K. S., equal; Woolsey, W. J.

Workshop I.—Agassiz, W. E.; Armstrong, A. E.; Bruce, E. L.; Bowen, G. H.; Burgess, J. H.; Barnum, L. A.; Carmichael, J. E.; Campbell, T. D.; Collins, W. H. E.; Chartrand, E.; Callander, R.; Drury, C. W.; Elliott, W. J.; Elliott, R. A.; Ebbern, F. W.; Ferguson, D.; Frost, E. S.; Gardiner, K. M.; George, W. B.; George, G.; Gorman, A.; Gilbert, C. G.; Goodwin, W. M.; Hope, A.; Hays, C. L.; Hubbard, W. H.; Holbrook, C. H.; Hambly, W. R.; Jenkins, G. A.; Jackson, G. W.; Kelso, J. A.; Kilburn, G. H.; Lowe, G. S.; Lockett, W. F.; Laturney, F.; Lawson, W. E.; Lyon, C. D.; Malcolm, L.; McIntosh, J. S.; McKenzie, R. M.; McDowall, R. J.; MacParland, A. J.; MacKay, A. A.; Neilson, A. C.; Nicol, D. S.; Newlands, N.; Osborne, J. K.; O'Brien, W. E.; Ockley, R.; Peeling, C. V.; Perry, O. M.; Phillips, C. S.; Ryan, F. H.; Roberts, W. H.; Roney, F. W.; Ransom, F.; Simmons, G.; Scott, J. N.; Stothers, J. H.; Sills, O.; Squire, A. M.; Saint, J. B.; Smith, A. R.; Scott, A. W.; Trueman, J. D.; Williams, M. Y.; Williams, T. B.; Williams, J. L.; Woods, S. A.; Watson, A. R.; Young, A. C.

Workshop II.—Agnew, C. W.; Baker, F. G.; Bennett, J.; Birkett, E. H.; Calvin, J. D.; Cummings, A.; Dempster, H.; Findlay, A.; Fleming, D. B.; Fleming, H.; Gleeson, L.; Germain, H. A.; Jeffery, J. J.; Jeffery, R. T.; McGinnis, T. A.; Malcolm, L.; Murphy, A. A.; Marshall, J.; McCandless, I.; Norrish, B. E.; McColl, C. R.; Pringle, J. F.; Pound, F.; Richmond, D. W.; Saunders, H. C.; Smith, A. R.; Stanley, O.; Sweezey, R. O.; Stidwell, F.; Thornton, L. A.; Wright, G. C.

THEOLOGY.

MATRICULATION, OCTOBER, 1905

Brydon, R.; Duncan, T. S.; McDonald, J.; Miller, F.; McDougall, L. M.; Tod, A. S.

SUPPLEMENTAL, NOVEMBER, 1905.

O. T. Exegesis—Marshall, D. H.; Donnell, J. A.

N. T. Exegesis—Marshall, D. H.; Donnell, J. A.

Apologetics—Marshall, D. H.

Church History—Marshall, D. H.

History of Dogma—Marshall, D. H.

Leitch Memorial—Brown, G. A., B.A.

B.D. Work—Holy Scripture, O.T.—Mahaffy, A.; Lindsay, M. A. F., B.A.

N.T.—Mahaffy, A.

Comparative Religion—Mahaffy, A.

1st. Paper—Mahaffy, A.

2nd. Paper—Mahaffy, A.

3rd. Paper—Mahaffy, A.

4th Paper—Mahaffy, A.

SESSIONAL EXAMINATIONS, 1906.

New Testament Criticism and Exegesis—Div. I, McDonald, J., Kidd, C. E.; Barnard, A. T., Munro, M. F., equal; Tod, A. S., Lindsay, M. Div. II—Cameron, A. E., Watt, W. J.; Brown, G. A., Brydon, R., Duncan, T. S., equal; Black, B. S.; Stevenson, R. M., Hay, W. M., Stewart, A. J., equal; Kidd, W. J., Caldwell, J. A., equal; McDonald, J. M. Div. III—Marshall, D. H., Ramsay, D. C.; Woods, J. H., Beveridge, R., Lynd, L. E., equal; McKeracher, D. A., Stewart J. A. Ferguson, J.; Miller, F., Donnell, J. A., equal.

FOR B. D.

New Testament Criticism and Exegesis—Canonics, H. T. Wallace, B.A. Textual Criticism—H. T. Wallace, B.A. Special Introduction—B. S. Black, B.A.; C. E. Kidd, B.A.; W. J. Kidd, B.A.; M. Lindsay, B.A.; H. T. Wallace, B.A. Exegesis—B. S. Black, B.A.; C. E. Kidd, B.A.; W. J. Kidd, B.A.; M. Lindsay, B.A.; H. T. Wallace, B.A. Systematic Theology, (*The Church*), J. E. Smith, B.A.. *Conception of God*—J. E. Smith, B.A.

For B.D., Apologetics, Theism and Antitheism—A. G. McKinnon, B.A. *Evolution of Religion*—A. G. McKinnon, B.A.

B.D. Holy Scripture, N. T.—J. A. Petric, B.A.; M. Lindsay, B. A.; McKinnon, A. G.

B.D. Holy Scripture, O.T.—McKinnon, A. G.

Comparative Religion—McKinnon, A. G.

Church History—Div. I, Donnell, J. A.; Kidd, C. E.; Ramsay, D. C.; Macdonald, J; Barnard, H. J.; Kidd, W. J.; Stevenson, R. McK.; Watt, W. I.; MacDonald, J. M. Div. II—Beveridge, R. W.; Tod, A. S.; Duncan, T. S.; Brown, Geo. A.; Marshall, D. H. J.; Woods, I. H.; Hay, W. M.; Stewart, J. Allister; Black, B. S.; Ross, W. M.; Brydon, Robt. Div. III—Munro, M. F.; Lynd, L. E.; McKeracher, D. A.; Lindsay, M. A. F.; Miller, Fred.; Cameron, Alex. E.; MacKinnon, J. D.; Ferguson, J.; Stewart, D. J.; Caldwell, J. S.

History of Dogma—Div. I, Ramsay, D. C.; Kidd, C. E.; Stevenson, R. McK.; Kidd, W. J.; MacDonald, J. M.; Macdonald,

J.; Watt, W. J.; Brown, Geo. A.; Hay, W. M.; Donnell, J. A.; Lindsay, M. A. F.; Barnard, A. T.; Black, Binney S.. Div. II—Beveridge, Robt. W.; Duncan, T. S.; Cameron, A. E.; Stewart, J. Allister; Miller, Fred.; Marshall, D. H. J.; Munro, M. F.; Brydon, Robt.; Tod, A. S.; Ferguson, J. Div. III—McKeracher, D. A.; Woods, J. H.; Ross, W. M.; Stewart, D. J.; Caldwell, J. S.; Lynd, L. E.; MacKinnon, J. D.

Church History (Honors)—Div. I, John M. MacDonald; R. McK. Stevenson, W. J. Watt, Geo. A. Brown, M. F. Munro, D. H. F. Marshall.

For B.D. Final Honours—J. A. Petric.

For B.D. O. T. Criticism, Micah—C. E. Kidd, G. A. Brown, W. J. Kidd, R. M. Stevenson; M. F. Munro, J. A. Watt, equal; D. H. Marshall. Genesis—C. E. Kidd, R. M. Stevenson, W. J. Kidd, G. A. Brown, J. A. Watt, Pilgrim Psalms (Supplemental)—M. A. F. Lindsay. Daniel—Aramaic, M. A. F. Lindsay. English Bible, Old Testament—J. A. Petrie. Hexateuch, W. J. Kidd, C. E. Kidd, W. F. Munro, Rev. J. E. Smith, M. A. F. Lindsay.

Old Testament Criticism and Exegesis—Third Year—Div. I, C. E. Kidd, J. A. Donnell. Div. II—W. J. Kidd, W. F. Munro, equal; J. M. McDonald; J. Ferguson, M. A. Lindsay, equal; D. A. McKeracher; J. A. Stewart, A. E. Cameron, equal. Div. III—J. S. Caldwell, I. H. Woods.

Old Testament Criticism and Exegesis, Second Year—Div. I, G. A. Brown, R. McK. Stevenson. Div. II—A. F. Barnard, J. A. Watt, equal; D. H. Marshall, B. Black, R. W. Beveridge.

Old Testament Criticism and Exegesis, First Year—Div. II, J. Macdonald, A. S. Tod, D. C. Ramsay, W. Hay. Div. III—F. Miller.

Old Testament Criticism, Post Graduate Class (Micah), Div. I, H. T. Wallace, J. A. Petrie, W. H. McInnes. Hexateuch—H. T. Wallace, W. H. McInnes, J. A. Petrie.

Apologetics—Div. I, Black, B. S.; McDonald, J.; Barnard, A. T.; Watt, W. J.; Ross, W. M.; Tod, A. S. Div. II—Hay, W. M.; Beveridge, R.; Miller, F. Div. III—Stewart, J. D.

Systematic Theology—Div. I, Donnell, J. A., Duncan, T. S. Marshall, D. H.; Brown, G. A., Stevenson, R. M., equal; McDonald, J., Ramsay, D. C., equal; McDonald, J. M.; Barnard, A. T., Brydon, R., equal; Black B. S. Div. II—Watt, W. J., Hay, W. M., Kidd, W. J., Caldwell, J. A., Cameron, A. E.; Lindsay, M.; Munro, M. F., Stewart, A. J.; Kidd, C. E., Woods, J. H.; Beveridge, R., Stewart, D. J., equal; Ferguson, J., Miller, F., equal; Ross, W. M., McKinnon, J. Tod, A. S., Lynd, L. E. Div. III—McKeracher,

MEDICAL EXAMINATIONS, APRIL, 1906.

FIRST YEAR.

Junior Anatomy—G. H. McIntosh, W. G. Usher, J. E. Galbraith, J. C. Gandier, M. C. MacKinnon, A. W. Murphy, N. B. Wormwith, M. A. McKay, J. C. Shillabeer, J. C. Gillie, C. S. Dunham, T. J. Goodfellow, B. C. Reynolds, T. Marcellus, W. G. Wallace, E. J. Bracken, J. J. McCann, B. L. Wickware, E. Brunet, H. E. Chatham, J. B. Hutton, H. M. Lermont, R. A. Hughes, C. Knight, D. E. Fraser, D. Robb, R. J. Ellis, E. Grant, L. M. Dawson, J. J. McPherson, A. Ferguson, A. Letherland, R. M. Bradley,, A. J. Keeley, J. A. Dougan, W. B. Poaps, C. W. Burns, J. S. Quinn, A. J. Salmon, T. J. Collinson, R. R. Barker, D. R. Cameron.

Animal Biology and Junior Physiology—N. B. Wormwith, M. C. MacKinnon, J. B. Hutton, J. C. Gandier, J. J. McPherson, M. A. McKay, J. H. McIntosh, J. J. McCann, D. E. Fraser, J. S. Quinn, O. W. Murphy, F. A. Cays, T. Marcellus, J. C. Shillabeer, B. L. Wickware, J. C. Gillie, H. E. Chatham, E. Brunet, Alex. Ferguson, J. E. Galbraith, A. J. Salmon, E. J. Bracken, A. V. Laing, E. Grant, H. E. Lermont, W. B. Poaps, C. Knight, C. W. Burns, C. J. McPherson, R. R. Barker, A. J. Keeley, David Dick.

Junior Chemistry—J. C. Gandier, M. C. MacKinnon, N. B. Wormwith, J. C. Shillabeer, J. B. Hutton, M. A. McKay,, T. N. Marcellus, O. W. Murphy, J. J. McPherson, J. S. Quinn, H. E. Chatham, A. J. Keeley, H. M. Lermont, B. L. Wickware, J. H. McIntosh, D. E. Fraser, E. J. Bracken, E. Grant, J. F. Doyle, Jas. C. Gillie, C. Knight, W. B. Poaps, J. P. McDermott, C. W. Burns, T. Little, J. A. Dougan, C. J. McPherson, H. W. Paddell, D. M. Eby, A. J. Salmon.

First Year Materia Medica—J. E. Galbraith, J. C. Gillie, J. B. Hutton, T. J. Goodfellow, J. H. McIntosh, J. C. Gandier, D. Robb, M. C. MacKinnon, B. L. Wickware, C. S. Dunham, O. W. Murphy, M. A. McKay, J. J. McCann, J. C. Shillabeer, J. J. McPherson, W. G. Wallace, T. N. Marcellus, C. H. Knight, H. E. Chatham, A. J. Salmon, R. M. Bradley, J. S. Quinn, J. A. Charlebois, H. M. Lermont, D. E. Fraser, R. J. Ellis, R. R. Barker, W. E. H. Whinton, E. J. Bracken, E. Grant, N. B. Wormwith, B. C. Reynolds, E. Brunet, B. A. Hughes, O. J. Allen, A. Letherland, C. J. McPherson, C. W. Burns, D. R. Cameron, W. B. Poaps, J. V. Kingsley, J. A. Keeley, L. M. Dawson.

SETOND YEAR.

Senior Anatomy—C. T. C. Nurse, F. R. Sargent, H. H. Milburn, G. H. Patterson, W. F. Cornett, J. C. Byers, S. V. Car-

michael, W. Morrison, A. E. Magill, M. C. Costello, T. V. Daley, J. E. R. Ramdeholl, I. D. Cotnam, E. T. Myers, H. B. Longmore, R. H. Robinson, W. Beggs, H. Dunlop, J. O. Barker, H. A. Connolly, T. R. Ross, A. McDonald, O. J. Allen, T. R. Welwood, F. B. McIntosh, J. P. I. Clancy, H. D. L. Spence, J. R. Hurtubise, N. W. Connolly, W. D. Kennedy, G. H. V. Hunter, J. M. Kelly, P. O. Coulombe, C. A. Patterson, A. V. Laing, N. J. McKinley, A. D. C. Rob, H. O. Redden.

Senior Physiology—H. Dunlop, I. D. Cotnam, C. T. C. Nurse equal; J. C. Byers, H. B. Longmore, H. A. Connolly, A. E. Magill, W. Morrison, J. O. Barker, F. R. Sargent, J. E. R. Ramdeholl, O. J. Allen, R. M. Bradley, T. R. Wellwood equal; T. V. Daley, M. C. Costello, F. A. Cays, E. T. Myers, G. H. Patterson, equal; W. Beggs, H. H. Milburn, equal; Coulombe, T. R. Ross, A. MacDonald, W. A. Kingsley, equal; E. G. Twitchell, R. A. Hughes, W. D. Kennedy, W. H. Cole, A. V. Laing, G. H. Hunter, N. W. Connolly, J. M. Kelly, H. D. L. Spence, L. M. Dawson, G. D. Gordon, equal; S. V. Carmichael, N. J. McKinley, J. R. Hurtubise, B. H. Thompson, R. H. Robinson, J. P. I. Clancy, F. B. McIntosh, equal; J. A. Charlebois, C. A. Patterson, W. H. Claxton, S. S. Shannon, equal; A. D. C. Rob.

Histology—H. Dunlop, R. A. Hughes, W. F. Cornett, C. T. C. Nurse, F. R. Sargent, I. D. Cotnam, equal, T. R. Welwood, J. C. Byers, L. M. Dawson, equal; J. O. Baker, N. W. Connolly, F. A. Cays, equal; H. H. Milburn, A. Letherland, H. A. Connolly, J. E. R. Ramdeholl, equal; W. A. Kingsley, A. MacDonald, W. Morrison, equal; J. F. Doyle, W. Beggs, P. O. Coulombe, E. T. Myers, R. M. Bradley, equal; H. D. L. Spence, G. H. Patterson, T. V. Daley; S. V. Carmichael, F. B. McIntosh, equal; J. P. I Clancy, J. E. Gharbonneau, J. M. Kelly, J. R. Hurtubise, E. P. Byne; B. H. Thompson, C. A. Patterson, W. D. Kennedy, O. J. Allen, equal; N. J. McKinley, . . Buck, W. C. Porter, W. A. Claxton, A. V. Laing, J. H. Duchesne, D. M. Eby, F. S. Young, J. A. Stewart, D. L. Fee, M. C. Costello, equal.

Senior Materia Medica, Pharmacology and Therapeutics—C. T. C. Nurse, A. E. Magill, H. B. Longmore, A. E. H. Bennett, H. A. Connolly, H. H. Milburn, F. R. Sargent, G. H. Patterson, J. E. R. Ramdeholl, H. Dunlop, S. V. Carmichael; J. O. Baker, E. T. Myers, equal; W. H. Claxton, F. B. McIntosh, A. L. Raymond, equal; J. M. Lapierre, W. F. Cornett, equal; I. D. Cotnam, W. Morrison, J. C. Byers, T. R. Welwood, R. M. Bradley, R. H. Robinson, T. R. Ross, A. D. C. Rob, equal; G. R. Falconer, H. M. Lermont, equal; W. Beggs, P. O. Coulombe, A. V. Laing, equal; O. J. Allen, H. C. Mabee, J. M. Kelly, J. A. Charlebois, T. Little, equal; T. V. Daley,

A. MacDonald, M. C. Costello, W. D. Kennedy, C. A. Patterson, equal; N. J. McKinley, R. Hughes, G. Hunter, B. H. Thompson, equal.

Senior Chemistry—C. T. C. Nurse, E. T. Myers, I. D. Cotnam, H. A. Connolly, W. H. Ballantyne, A. E. Magill, T. R. Ross; W. A. Kingsley, equal; S. V. Carmichael, H. H. Milburn, J. E. R. Ramdeholl, equal; M. C. Costello, O. J. Allen; J. C. Byers, G. H. V. Hunter, equal; M. R. Bow, J. M. Kelly, equal; W. Morrison; P. O. Coulombe, G. H. Patterson, A. MacDonald, equal; R. Mills, R. H. Robinson, N. J. McKinley, L. L. Buck, W. H. Cole, T. V. Daley, N. W. Connolly, W. Beggs, F. B. McIntosh, C. A. Patterson, B. H. Thompson, J. P. I. Clancy, A. V. Laing, H. E. Bond, H. E. Moore, W. D. Kennedy, D. L. Fee.

Analytical and Physiological Chemistry—O. J. Allen, A. MacDonald, equal; M. C. Costello, H. H. Milburn, equal; E. T. Myers, C. T. C. Nurse, L. M. Dawson; S. V. Carmichael, A. V. Laing, equal; W. Beggs, G. H. Hunter, A. E. Magill, equal; T. V. Daley, M. G. Rigney, equal; J. O. Baker, H. A. Connolly, P. O. Coulombe, N. J. McKinley, T. R. Welwood, equal; N. W. Connolly; F. B. McIntosh, C. A. Patterson, equal; J. C. Byers, W. A. Claxton, R. A. Scott, equal; L. L. Buck, J. E. R. Ramdeholl, B. A. Sandwith, D. L. Fee, R. H. Robinson, equal; B. H. Thompson; I. D. Cotnam, J. R. Hurtubise, W. A. Kingsley, J. M. Kelly, equal; J. P. I. Clancy, W. D. Kennedy, W. Morrison, W. G. Laidley, equal; J. M. Lapierre, G. H. Patterson, equal; J. Allaire, T. R. Ross.

Physiological Chemistry Only—W. H. Cole, R. M. Bradley.

THIRD YEAR.

Practice of Medicine—R. D. Paul, R. Wightman, J. P. McNamara, J. P. Quigley, C. Laidlaw, equal; F. H. Trousdale, J. E. Brown; A. G. Curphey, J. R. Losee, J. H. Sullivan, equal; M. L. Burke, A. T. Spankie, G. E. Story, F. J. Keeley, A. E. H. Bennett, S. B. Casselman, M. J. O. Walker, R. Mills; A. M. McCormick, H. M. Bowen, equal; A. McDonald, G. A. Greaves; J. F. McDermott, H. B. Longmore, equal; R. A. Scott, H. D. L. Spence; B. Asselstine, W. L. Yule, F. S. Young, T. J. Collinson, equal; A. C. Johnston, F. J. Donevan, equal; L. McCambridge, R. F. Nicholls, J. H. Duchesne, H. E. Bond.

Junior Surgery—J. P. Quigley, F. H. Trousdale; R. Wightman, A. T. Spankie, equal; A. G. Curphey, Allan Bennett, R. D. Paul, G. E. Story; S. B. Casselman, M. L. Burke, J. E. Brown, equal; M. J. O. Walker, J. A. Charlebois, J. P. McNamara, equal; J. H. Sullivan, F. J. Donevan, equal; J. R. Losee, C. Laidlaw, H. D. L. Spence, W. L. Yule, equal;

Angus McDonald, B. Asselstine, H. B. Longmore, equal; F. J. Keeley; Richard Mills, R. F. Nicolls, equal; Albert McCormick, R. A. Scott, equal; H. Bowen, J. F. McDermott, equal; G. A. Greaves, L. McCambridge, equal; W. C. Porter, J. H. Deuchesne, A. C. Johnston; H. E. Bond, T. J. Collinson, J. E. B. Galloway, L. J. Day.

Junior Obstetrics and Paediatrics—R. Wightman; C. Laidlaw, F. H. Trousdale, equal; J. P. Quigley, G. E. Story, J. E. Brown, S. B. Casselman; J. P. McNamara, M. L. Burke, equal; G. A. Greaves, A. T. Spankie, equal; R. D. Paul; J. R. Losee, J. H. Sullivan, equal; A. E. H. Bennett; F. J. Donevan, F. J. Keeley, equal; H. M. Bowen, A. M. McCormick, B. Asselstine, R. A. Scott, A. G. Curphey, R. F. Nicholls, L. McCambridge; M. J. O. Walker, W. L. Yule, equal; R. Mills; H. D. L. Spence, equal; J. F. McDermott, A. McDonald, F. A. Cays, L. J. Day.

Third Year Pathology—J. P. Quigley, R. D. Paul, F. H. Trousdale, C. Laidlaw; R. Wightman, J. P. McNamara, equal; M. J. O. Walker, M. L. Burke, J. R. Losee; A. E. H. Bennett, G. E. Storey, R. M. Mills, equal; A. T. Spankie, A. G. Curphey, equal; J. E. Brown, W. L. Yule, equal; H. M. Bowen, G. A. Greaves, S. B. Casselman, A. McDonald, F. J. Donevan, L. J. Day, B. Asselstine; J. H. Sullivan, F. J. Keeley, equal; A. M. McCormick, R. F. Nicholls, L. L. McCambridge, H. D. L. Spence; W. E. H. Whinton, A. C. Johnston, R. A. Scott, G. F. Cliff, equal.

Junior Applied Anatomy—M. L. Burke, S. B. Casselman, R. Wightman; A. E. H. Bennett, C. Laidlaw, equal; B. Asselstine, A. T. Spankie; H. M. Bowen, J. P. McNamara, equal; J. F. McDermott; R. D. Paul, H. B. Longmore, equal; A. McCormick, F. J. Donevan; J. P. Quigley, R. Mills, equal; H. D. L. Spence, A. C. Johnston, G. E. Story, F. H. Trousdale; A. McDonald, J. R. Losee, T. J. Collinson, equal; J. H. Sullivan, G. A. Greaves, F. J. Keeley, equal; J. E. Brown; M. J. O. Walker, W. C. Porter, equal; J. A. Stewart, W. L. Yule.

Jurisprudence—J. P. McNamara; J. P. Quigley, J. R. Losee, equal; F. H. Trousdale, R. Wightman, equal; A. T. Spankie, S. B. Casselman, R. D. Paul, M. L. Burke, B. Asselstine; R. Mills, W. C. Porter, equal; A. E. Bennett, A. McDonald, equal; A. G. Curphey, R. A. Scott, F. J. Donevan, J. E. Brown; F. J. Keeley, M. J. O. Walker, equal; A. M. McCormick; W. L. Yule, H. D. L. Spence; W. E. H. Whinton, J. H. Sullivan, equal; A. Ferguson, F. A. Cays, equal; J. F. McDermott; G. A. Greaves, R. F. Nicholls, equal; H. M. Bowen; J. E. B. Galloway, A. C. Johnston, equal; L. McCambridge, H. E. Bond, D. R. Cameron, T. J. Collinson, J. H. Duchesne, J. A. Charlebois.

Sanitary Science—J. P. McNamara; Allan Bennett, F. H. Trousdale, equal; J. P. Quigley; A. G. Curphey, R. D. Paul, R. Wightman, equal; J. E. Brown, W. E. H. Whinton, M. L. Burke, G. A. Greaves, J. R. Losee, B. Asselstine, M. J. O. Walker, F. J. Donevan; S. B. Casselman, H. Dunlop, G. E. Story, W. L. Yule, equal; A. T. Spankie, L. McCambridge, equal; F. A. Cays, R. Mills, J. F. McDermott, R. F. Nicholls, equal; J. H. Sullivan, H. M. Bowen, A. M. McCormick; J. E. B. Galloway, R. A. Scott, equal; A. McDonald, F. J. Keeley, equal; T. J. Collinson, W. C. Porter; J. A. Charlebois, J. H. Duchesne, equal.

FOURTH YEAR.

Senior Practice of Medicine—L. L. Playfair, W. R. Patterson, equal; A. M. Bell, E. Bolton, A. E. Baker, equal; W. E. Patterson, D. G. Dingwall; J. R. Stewart, S. L. Lucas, equal; S. McCallum; E. Sutherland, J, Reid, equal; J. J. Wade; C. A. Publow, H. Cochrane, C. W. Graham, equal; W. J. Taugher; R. K. Patterson, D. J. McDonald, J. A. Barnes, T. F. Saunders, W. E. Spankie, equal; A. G. McKenley, J. B. Snyder, J. P. McCormick, C. B. Dear; F. Nicolle, C. A. Lawler, equal; S. Shannon, H. G. Craig, C. P. Templeton, G. L. Cockburn, J. Johnston, D. M. Young, equal; W. G. Laidley, F. E. Lowe, W. F. Gavin, J. F. Brander, equal; S. H. Smith, F. J. O'Connor, W. M. R. Palmer, equal; D. McLellan, B. Sutherland, equal; H. O. Redden, B. A. Sandwith, equal; R. S. Devlin, H. T. A. Jamieson, A. D. C. Rob.

Clinical Medicine—L. L. Playfair, W. R. Patterson; S. L. Lucas, E. Bolton, equal; A. M. Bell; W. J. Taugher, E. Sutherland, equal; A. E. Baker, S. McCallum, equal; W. E. Patterson, J. Reid; C. A. Publow, John Johnston, equal; C. Graham, S. Shannon, C. B. Dear, equal; J. P. McCormick, J. J. Wade, equal; G. L. Cockburn, W. E. Spankie, H. Cochrane, equal; T. F. Saunders, B. Sutherland, D. McLellan, F. J. O'Connor, W. G. Laidley, equal; J. B. Snyder, D. G. Dingwall, equal; D. M. Young, C. A. Lawler, H. G. Craig, equal; C. P. Templeton, J. R. Stewart, H. O. Redden, equal; R. K. Pateson, F. R. Nicolle; J. F. Brander, W. M. R. Palmer, equal; J. A. Barnes, R. S. Devlin, F. E. Lowe, S. H. Smith, D. J. McDonald, .H T. A. Jamieson, W. F. Galvin; B. A. Sandwith, A. G. McKenley, equal; A. D. C. Rob.

Senior Surgery—A. E. Baker, B. Sutherland; E. Bolton, S. McCallum, equal; L. L. Playfair; A. M. Bell, W. E. Spankie, equal; C. W. Graham, E. Sutherland, equal; J. A. Barnes, C. A. Lawler, D. J. McDonald, equal; J. J Wade, W. R. Patterson, R. K. Paterson, C. B. Dear, F. J. O'Connor, equal; John Johnston, W. E. Patterson, T. F. Saunders,

equal; S. L. Lucas, H. G. Craig, J. B. Snyder; J. R. Stewart, J. P. McCormick, equal; C. A. Publow, S. H. Smith, C. P. Templeton, D. M. Young, F. R. Nicolle, equal; W. J. Taugher; A. G. McKenley, D. G. Dingwall, H. Cochrane, equal; D. McLellan, J. Reid, equal; S. S. Shannon, A. D. C. Robb, B. A. Sandwith, equal; H. T. A. Jamieson, F. E. Lowe, equal; F. S. Young, W. M. R. Palmer, E. G. Twitchell; W. F. Gavin, J. F. Brander, equal; M. A. Carmichael, H. O. Redden, G. F. Cliff; W. G. Laidley, G. L. Cockburn, equal; S. O. Garayt, J. A. Stewart, R. S. Devlin.

Clinical Surgery—W. R. Patterson; S. McCallum, W. J. Taugher, W. E. Spankie, C. W. Graham, C. A. Lawler, L. L. Playfair, A. M. Bell, equal; S. H. Smith, D. McLellan, J. Johnston, C. A. Publow, equal; H. G. Craig, J. J. Wade, J. B. Snyder, C. P. Templeton, E. Bolton, S. L. Lucas, R. K. Paterson, J. Reid, E. Sutherland, J. R. Stewart, D. J. McDonald, A. E. Baker, G. L. Cockburn, W. E. Patterson, A. D. C. Robb, H. O. Redden, A. G. McKenley, F.E. Lowe, B. Sutherland, T. F. Saunders, H. Cochrane, D. G. Dingwall, C. B. Dear, J. P. McCormick, H. T. A. Jamieson, B. A. Sandwith, G. F. Cliff, equal; J. F. Brander, F. J. O'Connor, F. R. Nicolle, S. S. Shannon, D. M. Young, W. M. R. Palmer, M. A. Carmichael, equal; E. G. Twitchell, G. D. Gordon, J. A. Stewart, J. A. Barnes, equal; W. F. Gavin, W. G. Laidley.

Senior Obstetrics and Gynaecology—L. L. Playfair; J. J. Wade, John Johnston, B. K. Paterson, equal; A. E. Baker, D. G. Dingwall, equal; W. R. Patterson, Elmer Bolton, equal, T. F. Saunders, S. L. Lucas, equal; J. R. Stewart, H. Cochrane, equal; F. J. O'Connor, J. A. Barnes; W. J. Taugher, C. A. Publow, W. E. Spankie, A. M. Bell, D. J. McDonald, equal; C. A. Lawler, Bruce Sutherland, equal; C. B. Dear, H. G. Craig, S. McCallum, C. P. Templeton; A. G. McKenley, D. McLellan, J. B. Snyder, equal; E. Sutherland, W. E. Patterson; C. W. Graham, B. A. Sandwith, equal; D. M. Young; James Reid, F. S. Young, F. E. Lowe, equal; R. S. Devlin, W. G. Laidley; S. Shannon, G. L. Cockburn, equal; F. R. Nicolle, J. P. McCormick, S. H. Smith, H. O. Redden, J. F. Brander, W. F. Gavin, A. D. C. Robb; J. A. Stewart, W. M. R. Palmer, equal.

Fourth Year Pathology—E. Bolton; L. L. Playfair, S. McCallum, equal; J. Johnston, E. Sutherland, equal; A. E. Baker; W. R. Patterson, J. B. Snyder, equal; J. R. Stewart, R. K. Paterson, equal; J. J. Wade; W. E. Patterson, James Reid, T. F. Saunders, equal; S. L. Lucas, C. W. Graham, F. J. O'Connor, equal; C. A. Lawler, W. J. Taugher, equal; A. G. McKenley; H. O. Redden, J. F. Brander, D. McLellan, equal; B. Sutherland, S. H. Smith, equal; C. A. Publow; J. A. Barnes, W. E. Spankie, equal; D. G. Dingwall; A. M.

Bell, W. F. Gavin, equal; C. P. Templeton; C. B. Dear, B. A. Sandwith, equal; D. J. McDonald, H. G. Craig, W. G. Laidley; G. L. Cockburn, F. E. Lowe, F. R. Nicolle, H. Cochrane, equal; S. S. Shannon, J. P. McCormick, equal; D. M. Young; A. D. C. Robb, W. M. R. Palmer, equal.

Senior Applied Anatomy—E. Bolton; L. L. Playfair, C. A. Lawler equal; A. E. Baker, S. O. Garayt; J. J. Wade, A. M. Bell, J. A. Barnes, equal; J. R. Stewart; James Reid, W. R. Patterson, equal; M. A. Carmichael, W. E. Patterson, C. P. Templeton, John Johnston, J. P. McCormick, equal; C. A. Publow; W. E. Spankie, W. J. Taugher, B. Sutherland, S. L. Lucas; D. G. Dingwall, J. B. Snyder, equal G. F. Cliff, W. M. R. Palmer, T. F. Saunders, equal; S. McCallum; G. L. Cockburn, R. S. Devlin, S. H. Smith, equal; W. F. Gavin, C. B. Dear, equal; D. McLellan, H. Cochrane, D. J. McDonald, equal; J. A. Stewart, C. W. Graham; F. R. Nicolle, D. M. Young, E. Sutherland, equal; F. J. O'Connor, R. K. Paterson, H. G. Craig, equal; A. D. C. Robb, A. G. McKenley, equal; H. T. A. Jamieson, S. Shannon, equal; F. E. Lowe; B. A. Sandwith, F. S. Young, H. O. Redden, equal; W. G. Laidley, J. F. Brander, equal.

Eye, Ear, Nose and Throat—R. K. Paterson, L. L. Playfair, equal; C. W. Graham; J. R. Stewart, W. E. Patterson, equal; C. B. Dear; J. Johnston, W. R. Patterson, equal; E. Sutherland, S. McCallum, E. Bolton, T. F. Saunders; H. Cochrane, J. A. Barnes, equal; S. H. Smith, B. C. Sutherland, equal; D. McLellan, D. G.Dingwall, D. J. McDonald, S. L. Lucas, equal; C. A. Lawler; H. O. Redden, W. M. R. Palmer, equal; C. A. Publow, A. M. Bell, J. F. Brander, equal; W. J. Taugher, D. M. Young, equal; F. J. O'Connor, J. J. Wade, equal; A. E. Baker, W. E. Spankie, W. F. Gavin, equal; J. B. Snyder, B. A. Sandwith, H. G. Craig, J. P. McCormick, A. G. McKenley, equal; J. Reid, E. G. Twitchell, equal; F. R. Nicolle, G. L. Cockburn, W. G. Laidley, equal; R. S. Devlin, F. E. Lowe, A. D. C. Rob, C. P. Templeton, equal; S. S. Shannon.

LIST OF STUDENTS.

SESSION 1905-1906.

IN ARTS.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Aiton, Agnes	1	Highland Creek	Markham H. S.
Aksim, E. F.	2	Listowel	Russia and Germany.
Alberta, Sr. M.	1	Formosa	St. Mary's H. S.
Alford, Ethel	3	Brockville	Athens H. S.
Amoss, H. E.	5	Aylmer West	Aylmer Coll. Inst.
Anderson, J. A.	3	Craigmont	Albert C.I., B'l'ville
Anderson, T. H. P.	3	Chisholm	Aurora H. S.
Anglin, Jennie M.	4	Kingston	Kingston C. I.
Anglin, R. W.	2	Cataraqui	Cork C. I.
Annesley, J.	1	North Bay	
Anning, N. H.	4	Oxmead P.O., Ont.	Meaford H. S.
Arthur Leona	4	Consecon	Picton H. S.
Arthur, Nellie	4	Consecon	Picton H. S.
Ashe, Cecilia, T.	1	Amherstburg	Convent of Mary, Immaculate, Key West, Fla.
Ashman, G. H.	2	Ottawa, Ont.	West & Carleton Place H. S.
Asselstine, O.	4	Wilton	Napanee C. I.
Atwater, H. E.	3	Baddeck, N. S.	Baddeck H. S.
Austin, Bessie	4	Waterford	Waterford H. S.
Bailie, A. A.	4	Billing's Bridge	Ottawa C. I.
Baird, A. W.	4	Brockville	Brockville C. I.
Barker, E. A.	3	Forfar	Forfar, Ont.
Beecroft, W. A.	3	Woodville, Ont.	Lindsay C. I.
Beggs, W.	5	Hallville, Ont	Morrisburg & Kemptville.
Beroard, L. C. E.	1	Ottawa	Ottawa Univers'ty.
Bertram, Jean K.	3	Dundas	Dundas H. S.
Best, H. H.	1	Langvale, Man.	P. of W. College. Charlottetown, P.E.I.
Birch, S. R.	1	Kingston	Kingston C. I.
Black, H. J.	1	Fergus	Fergus H. S.
Bland, O.	3	Pembroke	Pembroke H. S.
Bluett, C.	3	Crediton	Forest H. S.
Boak, A. E.	1	Kingston	Kingston C. I.
Bolton, C. W.	2	Dawn Mills	Waterford H. S.
Bongard, Edna	4	Picton	Picton H. S.
Bothwell, N. D.	2	McGarry	Perth C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Bow, M. R.	2	Winchester.	Morrisburg C. I.
Bowen, N. L.	3	Kingston	Kingston C. I.
Boyd, F.	1	Kingston	Kingston C. I.
Branion, H. C.	1	Brownsville	Aylmer C. I.
Branion, S. J. A.	4	Wolseley, Sask.	St. Mary's C. I.
Brennan, J. B.	3	Toronto	Toronto C. I.
Brown, J. M.	1	Regina, Sask.	Morrisburg C. I.
Brown, D.	3	Kingston	Kingston C. I.
Brunton, W. D.	2	Ottawa	Ottawa C. I.
Buchanan, J. A.	3	Parkhill	Parkhill H. S.
Buchanan, J. D.	5	Vancouver, B. C.	Brantford C. I.
Burchill, A. M.	3	Bolton	Hamilton C. I.
Burgess, W. H.	1	Tilbury	Chatham C. I.
Burchill, J. E.	2	Spencerville	Prescott
Burke, Laura	1	Yorkton, Sask.	Wapella Pub. Sch.
Berney, Laura	5	Kingston	Athens H. S.
Burns, C. J.	3	Cannington	Lindsay C. I.
Burns, Olive M.	4	Kingston	Kingston C. I.
Burwell, Bertha E.	1	Shedden	St. Thomas C. I.
Butler, Rose, M. E.	1	Amherstburg	St. John's Academy, Schenectady, N. Y.
Byers, C. H.	1	Mitchell	Mitchell H. S.
Caldwell, T. N.	1	Gilchrist	Barrie C. I.
Calhoun, Kathleen	3	Ottawa	Ottawa C. I.
Cameron, Gertrude	1	Morrisburg	Morrisburg C. I.
Campbell, N.W.	3	Durham	
Campbell, A. L.	5	Fergus, Ont.	
Campbell, R. H.	2	Charlottet'n, P.E.I.	P. of W. College
Carmichael, D. A.	2	Unionville	Markham H. S.
Carswell, J. F.	1	Renfrew	Renfrew C. I.
Caverley, D. C.	2	Sine	Stirling H. S.
Cawker, H. M.	1	Oshawa	Oshawa Pub. H. S.
Cameron, Alex.	4	Montague, P.E.I.	P. of W. College
Chandler, Pearl E.	3	Norwood	Norwood H. S.
Chant, W.	3	Chantry	Brockville
Chapman, W. F.	4	Toronto	
Charlesworth, J.W.	4	Guelph	Private Tuition
Chatterton, A.	2	Kingston	Kingston C. I.
Chown, Ada F.	1	Kingston	Kingston C. I.
Chown, S. G.	1	Kingston	Kingston C. I.
Clancy, G. S.	2	Newburgh	Newburgh H. S.
Clark, E. F.	1	Vancouver, B.C.	K. S. A. College
Clarke, H. M.	4	Almonte	Almonte H. S.
Clarke, T. E.	4	Ottawa	Harbord St. C. I., Toronto
Clifford, Margaret.	3	Conroy	Stratford C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Closs, F. D.	4	Leamington	Aylmer C. I.
Clugston, J. F.	4	Epping	Meaford H. S.
Coates, E. W. S.	3	Ormstown, Que.	Prescott H. S.
Code, Ethel M.	1	Almonte	Almonte H. S.
Code, S. W. A.	4	Kigston	Carlt'n Place H. S.
Coglon, R. G.	2	Bath	Albert Coll. B'ville
Compton, Edith	2	Kigston	Kingston C. I.
Cook, W. J.	3	Orton	'Varsity, Toronto
Coon, H. J.	4	Belleville	Belleville H. S.
Coones, E. S.	1	Ottawa	Morrisburg C. I.
Cooper, A. B.	5	Chatsworth	
Corkery, Florence	2	Peterboro	Peterboro C. I.
Cornell, M. L.	3	Carleton Place	Carl't'n Place H. S.
Cornell, D. N.	1	Cornwall	Campbellford H. S.
Cornett, A. D.	3	Kigston	Kingston C. I.
Cornett, W. F.	4	Kigston	Kingston C. I.
Cowles, J. P.	2	Ivy	Barrie C. I.
Craig, V. H.	2	Kingston	Kingston C. I.
Cram, Elizabeth		Smith's Falls.	Smith's Falls H. S.
Cram, W. S.	4	Carleton Place	Carl't'n Place H. S.
Crawford, C. M.	4	Kingston	Kingston C. I.
Crawford, V. W.	1	Kingston	Kingston C. I.
Crowley, E.	1	Kingston	Regiopolis College
Currie, Mima K.	2	Dutton	Perth C. I.
Daley, J. C	2	Kingston	Regiopolis College
Darroch, W. F.	7	Brantford	Harriston H. S.
Davidson, E. M. L.	2	Kingston	Kingston C. I.
Davis, Gertrude B.	1	Brockville	Brockville C. I.
Dennis, E. M.	3	Ottawa	Woodstock C. I.
Denny, J. D.	3	Ottawa	Peterboro C. I.
Detweiler, J. D.	1	Blair	Galt C. I.
Deutschman, F. W.	4	Hanover	Harriston H. S.
Dewey, W. G.	2	Galt	Colborne H. S.
Dickson, J.	1	Kingston	Kingston C. I.
Dingman, Annie P.	1	Bratford	Stratford C. I.
Dingwall, R.	3	Cornwall	Cornwall H. S.
Dingwall, W. A.	2	Cornwall	Cornwall H. S.
Doan, A. W. R.	1	Hamilton	Newmarket H. S.
Dobbie, J. A.	1	Ottawa	Guelph C. I.
Dobson, Wm.	1	Beaverton	Upper Canada Coll.
Dobson, W. A.	1	Picton	Picton H. S.
Donald, Helen	4	Belleville	Belleville H. S.
Donald, Jean	3	Belleville	Belleville H. S.
Donevan, F. J.	3	Gananoque	Gananoque H. S.
Donnell, J. A.	1	Beaverton	Lindsay C. I.
Doolittle, J.	2	Brandon, Man.	

NAME.	Year of Attend-ance.	Summer Residence.	Where Educated.
Downey, R. F. . . .	2	Port Perry	Weston H.S. Toronto J'c. C. I.
Doxsee, W. W. . .	1	Gravenhurst . . .	Gravenhurst S. S.
Drysdale, F. W. . .	3	Lanark	Congregational Coll., Montreal.
Dunham, C. . . .	3	Frankville	Athens H. S.
Dunlop, Flo. M .	4	Kingston	Kingston C. I.
Dwyer, W. O. . . .	4	Kingston	Kingston C. I.
Easson, R. C. . . .	3	Stratford	Stratford C. I.
Elliott, Emily M...	4	Agincourt	Markham S. S.
Elliott, Gertrude..	1	Kingston	Kingston C. I.
Edwards, J. J. . .	4	Laird	Lanark H. S.
Elliott, H. E. . . .	3	Forest	Forest H. S.
Elliott, Jenie . . .	1	Arnprior	Arnprior H. S.
Elliott, Ida E. . . .	1	Arnprior	Arnprior H. S.
Ellis, D. S.	4	Kingston	Kingston C. I.
Ellis, Mima A. . .	3	Pakenham	Almonte H. S.
Ellis, R. J.	3	Ellisville	Athens H. S.
English, G. R. . .	2	Woodstock	Woodstock H. S.
Ettinger, J. G. . .	6	Kingston	Listowel
Evans, J. J.	4	Toronto	Walkerton H. S.
Everts, H. A. . . .	4	Lyn	Brockville C. I.
Eyre, B.	1	Kingston	
Fallis, L. K. . . .	2	Toronto	Port Perry
Fargey, Agnes M...	2	W. Huntingdon . .	Stirling H. S.
Farnham, M. M. . .	4	Copper Cliff . . .	Prescott H. S.
Faris, M. N. . . .	1	Bradford	Bradford H. S.
Feasby, W. J. . . .	3	Toronto	Harbord St. C. I., Toronto.
Ferguson, Eleanor.	2	Ottawa	Ont. Ladies' College, Whitby.
Ferguson, Jas. . .	3	Carleton Place . .	Carleton Pl. H. S.
Ferguson, J. J. . .	3	Fergus	Galt C. I.
Ferguson, W. . . .	1	Oznabruck Centre	Morrisburg C. I.
Ferguson, Wm. . .	4	Snow Road	Perth C. I.
Finlayson, D. K. .	5	Grand River, N. S.	Grand River H. S.
Flynn, A.	2	Morrisburg	Morrisburg C. I.
Fokes, A. F. . . .	4	Kingston	Kingston C. I.
Foley, R. S. . . .	2	Tilley	Kingston C. I.
Foley, D. E. . . .	1	Westport	
Forneri, Kate de .	2	Kingston	Merrickville H. S.
Forrester, J. W. .	3	Westport	Athens H. S.
Foster, Beatrice L.	3	Smith's Fall's . . .	Smith's Falls H. S.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Foster, D. E.	1	The Grange, Ont.	Brampton H. S.
Foster, Jessie	2	Welland	St. Catharines C. I.
Fraser, D. J.	3	Whitby	Whitby C. I.
Fraser, G. L.	1	Bradford	Bradford H. S.
Froats, J.	4	Finch	Morrisburg C. I.
Fuller, E. L.	3	London	London C. I.
Galligan, J.	1	Eganville	Renfrew H. S.
Gardiner, J. N.	2	Kingston	Kingston C. I.
Gibson, A. H.	3	Perth	Perth C. I.
Gibson, J. W.	1	Kars	Kemptville H. S.
Gibson, M. J.	2	Kingston	Kingston C. I.
Gilchrist, W. A.	2	Glamis	Kincardine H. S.
Gilmour, A.	3	Hampden	Walkerton H. S.
Gilson, Rose E.	1	Teeswater	Meaford H. S.
Goodfellow, T. J.	3	Parham	Sydenham H. S.
Goodwin, Edith C.	1	Kingston	Kingston C. I.
Goodwin, W. M.	2	Kingston	Kingston C. I.
Graham, C. R.	2	Arnprior	Arnprior H. S.
Graham, Violet B.	4	Wallbridge	
Grass, Margaret, F.	5	Kingston	Kingston C. I.
Gravelle, F. W.	2	Portsmouth	Regiopolis Coll.
Greene, Edith M.	3	Brockville	Brockville C. I.
Greer, G.	1	Peterboro	Peterboro C. I.
Grover, J. I.	3	Kingston	Trinity Coll. School, Port Hope.
Hall, Margaret	1	Kingston	Kingston C. I.
Hall, Eliz'bth B.	1	Ottawa	Ottawa C. I. & Hamilton C. I.
Hall, T. W.	1	St. Thomas	St. Thomas H. S.
Hallett, W. J.	4	Barrie	Self Taught
Hamilton, W. J.	5	Picton	Cobourg H. S.
Hamilton, J. R.	2	Winterbourne	Berlin H. S.
Hampson, E.	2	Ottawa	Mt. Forest H. S.
Hanna, E.	3	Toronto	Harbord St. C. I., Toronto.
Harkness, Mary D.	4	Metcalfe	Kemptville H. S.
Harrison, F. W.	4	Richmond Hill	Richmond H. S.
Haughton, C.	4	Russeltown, Que.	Kemptville H. S.
Haycock, Marg't	2	Kingston	Kingston C. I.
Hendry, Annie S.	7	Hamilton	Hamilton
Henry, S. H.	1	Sydenham	
Henry, Laura C.	2	Guelph	Guelph C. I.
Hicks, G. O. W.	1	Pickering	Pickering College.
Hill, J.	4	Harrington West	St. Mary's C. I.
Hiscock, May B.	3	Kingston	Kingston C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Hofferd, G. W.	4	Milverton	Owen Sound C. I.
Holliday, Rev. A.	1	Sydney, N. S. W.	
Hone, A. D.	2	Petrolea	Petrolea H. S.
Hood, F.	1	Parkhill	Owen Sound C. I.
Hooper, C. H.	2	Hamilton	Ont. Pub. Schools
Hooper, J. C.	2	Picton	Picton H. S.
Hortense, Sr. M.	1	New Germany	
Houser, W. H.	1	Canboro	Dunville H. S.
Houston, J. A.	3	Belleville	Albert College, Belleville.
Howard, L.	1	Stanfordville, N.Y.	W. Va. University Peterboro C. I.
Howson, Lexa	1	Peterboro	Meaford H. S.
Huff, J. S.	3	Meaford	Kingston C. I.
Hughes, Ada	4	Kingston	Guelph C. I.
Hughes, F. J.	2	Guelph	
Hunter, Rev. J. E.	2	Stratford	
Ide, W.	3	Ottawa	Centre for Pupil Teachers.
Jackson, R. C.	3	Arowhead, B. C.	Pictou Acad., N. S.
Jandrew, W.	1	Ottawa	
Jeffry, O. W.	2	Elder's Mills	Wiarton H. S.
Jermyn, J. W.	1	Gretna, Man.	
Jewitt, T. J.	4	Campbell's Cross	Kingston C. I.
Jordan, D.	3	Kingston	Oakville & Hamilton.
Joyce, C. E.	3	Bronte	Columbia Univ.
Kaplan, B. M.	1	San Francisco, Cal.	Forest H. S.
Karr, W. J.	6	Sarnia	Ridgetown
Kendrick, G. B.	1	Comber	Barr C. I.
Keenan, E. J.	1	Tavistock	Barrie, C. I.
Keenan, T.	1	Westport	Regiopolis College
Kennedy, P. J.	1	Portsmouth	Athens H. S.
Kennedy, F. C.	4	Winnipeg, Man.	Stratford C. I.
Kennedy, W. W.	1	Stratford	St. Mary's Acad.,
Kennedy, Marie V.	1	Widsor	Winnipeg Man. Barrie C. I.
Kidd, T. W.	1	Barrie	Kemptville H. S.
Kidd, G. E.	4	Prospect	Walkerton H. S.
King, G. A.	2	New Westm'r, B.C.	Walkerton H. S.
King, H. B.	3	Vancouver, B. C.	Picton H. S.
Kingston, H. R.	3	Picton	Bradford H. S.
Kirkpatrick, W. H.	2	Bradford	
Knight, C. H.	1	New York, N. Y.	Private Schools and

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Knowles, R. W. ..	1	Fullarton	Academies in Ireland.
Laidlaw, R. J. ..	4	Georgetown	Owen Sound C. I.
Lake, Ethel	2	Sydenham	Sydenham H. S.
Laing, A.	3	Baltimore	Port Hope C. I.
Lambert, Beatrice.	2	Kingston	Kingston C. I.
Lane, D. J.	2	Kinlough	Walkerton H. S.
Laughton, H. V. .	1	Parkhill	Parkhill H. S.
Lavell, Marion F. .	2	Smith's Falls . . .	Smith's Falls
Law, C. E. L. H.	4	Solina	Oshawa H. S.
Lawrence, C. W. ..	4	Smyrna, Turkey .	Leicester Acad., Massachusetts.
Lear, M.	1	Bighton	
Letherland, A. . .	3	Elginburg	Kingston C. I.
Liggett, R. H. ...	2	Garden Hill . . .	Millbrook
Lioba, Sr. Mary...	1	Berlin	St. Mary's H. S. Mil.
Lipman, A.	2	Kingston	Kingsto C. I.
Little, A. M. . ..	2	Atwood	Listowel
Livingston, C. W. .	2	Kingston	Kingston C. I.
Losee, W. H.	1	Collins Bay . . .	Kingston C. I.
Low, Constance ..	4	Ottawa	Kingston C. I.
Lowe, Maysie . ..	2	Kingston	Ladies' College, Ottawa.
Lynd, L. E.	4	Churchill	Bradford, Owen Sd. C. I., Univ. Coll.
Madden, J. L. . ..	1	Kingston	Regiopolis College
Magee, J. A.	2	Hanover	Owen Sound C. I.
Maguire, J. D. ...	2	Kingston	Regiopolis College
Malcolm, W. . . .	4	Woodstock	Woodstock C. I.
Malloch, T. A. ...	2	Hamilton	Highfield School, Hamilton
Matheson, M. . ..	3	Armow	Kincardine H. S.
Matthews, Jessie .	3	Almonte	Almonte
Mattock, Edna M.	3	Almonte	Almonte
Maxwell, Daisy ..	3	Kingston	Kingston C. I.
Meek, Mabel L. ..	1	Kingston	Kingston C. I.
Meldrum, G. E. ..	5	Ottawa	Ottawa C. I.
Menzies, A. P. ...	1	Ottawa	Ottawa C. I.
Mercer, A. F. . ..	1	Fall River, Mass. .	B. M. C. Durfee H.S.
Millar, Edna A. ..	3	Brockville	Brockville C. I.
Miller, Cora .. .	4	Aylmer	Aylmer C. I.
Mills, F. W. . ..	3	Kingston	Kingston C. I.
Mitchell, Edna . .	2	Kingston	Kingston C. I.
Moffat, W. J. ...	4	Seaforth	Owen Sound C. I.
Montgomery, A. R.	4	Kingston	Kingston C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Montgomery, I. A.	4	Pleasant Valley . .	Iroquois H. S.
Moorhouse, W..	1	North Bay	Glencoe H. S.
Moore, C. K. . . .	1	Edmonton, Alta . .	
Morgan, W. B. . .	1	Hartland, N. B. . .	St. John, N. B.
Morrison, W. R. . .	1	Ormstown, Que. .	Montreal H. S.
Morton, A. S. . . .	1	Newboro	London C. I.
Morton, Marion C.	1	Aberdeen	Bentick & Durham H. S.
Muir, Jessie	3	Almonte	Arnprior H. S.
Mulloy, L. W. R. .	4	Winchester	Morrisburg H. S.
Murday, A. M....	3	Alliston	Barrie C. I.
Murphy, T. G. . . .	1	Brighton	
Murtagh, H. J. . . .	1	Aylmer, Que. . . .	Ottawa University
MacArthur, Annie	3	Washburn	Kingston C. I.
MacArthur, Donelda	2	Cardinal	Ottawa Ladies' College
McArthur, D. A. .	2	Dutton	Dutton H. S.
McAskile, J.	3	Highgate	Ridgetown C. I.
MacCrimmon, W.A.	1	Crossfield, Alta . .	Alexandria H. S.
McCallum, J. F. .	3	Brewer's Mills . .	Gananoque H. S.
McCammon, G. ..	2	Gananoque	Gananoque H. S.
McCandless, Bessie	1	Kingston	Kingston C. I.
McConkey, Eva ..	4	Brockville	Brockville C. I.
McCormack, Irene	6	Kingston	Kingston C. I.
McCrimmon, J. R.	4	Vankleek Hill . . .	Private Tuition
McCuaig, H. D. .	4	Dalston	Barrie C. I.
McDermott, J. P. .	1	Eganville	Pembroke H. S.
MacDonald, Clara	2	Muirkirk	Dutton H. S.
McDonald, A. D...	1	Mountain View, Al.	Pictou Acad., N. S.
McDonald, H. ...	1	Enderby, B. C. . .	Goderich H. S.
McDonald, J. A. .	1	South Indian . . .	Alexandria H. S.
McDonald, G.	2	Blakeney P. O. . . .	Almonte H. S.
McDonald, R. J. .	4	Golspie	Woodstock C. I.
MacDonald, N. S..	3	Toronto	Bowmanville H. S.
Macdonnell, A. D..	2	Lancaster	Williamstown H. S.
Macdonnell, El'nor	3	Kingston	Kingston C. I.
Macdonnell, H. W.	2	Kingston	Kingston C. I.
Macdonnell, N. ...	2	Kingston	Kingston C. I.
McDunnough, J.H.	3	Berlin, Germany . .	Jarvis St. C. I., Toronto
McEachern, J. G..	3	Holland Landing .	Guelph C. I.
McEachran, Mary.	5	Strathburn	Glencoe H. S.
Maceachran, Mattie	1	Schomberg	Newmarket
Macfarlane, Chr'sne	4	Franktown	Carleton Pl. H. S.
McGill, A. B.... .	5	Lindsay	Lindsay C. I.
Macfarlane, Annie	3	Franktown	Carleton Pl. H. S.
Macfarlane, Mary.	3	Franktown	Carleton Pl. H. S.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Macdonald, W.	1	Pretoria, Tr'vaal	Royal H. S.
MacGillivray, J.M.	3	Picton	Picton H. S.
McGlennon, K. C.	4	Colborne	Colborne H. S.
Macinnes, G. L.	3	Vankleek Hill	Vankleek Hill H. S.
MacInnes, Isabel	3	Vankleek Hill	Vankleek Hill H. S.
MacIntosh, C. R.	2	Athens	Owen Sound C. I.
McIntosh, W. D.	3	North Bruce	Port Elgin H. S.
MacKay, D. L.	1	Berlin	Berlin C. I.
MacKay, Minnie B.	3	Smith's Falls	Smith's Falls H. S.
MacKechnie, Ph'be	2	Wiarton	Wiarton H. S.
Mackenzie, Portia.	1	Kingston	
Mackenzie, Maude	5	Gananoque	Gananoque H. S.
MacKenzie, Donald	1	Ayton	Kincardine H. S. Jamaica Ave. C. I.
MacKenzie, Jessie.	3	Clearwater, Man.	
Mackenzie, W. F.	3	St. Thomas	St. Thomas C. I.
McKeracher, Dona.	3	Dutton	Dutton H. S.
McKeil, H. W.	2	Gananoque	Alexandria H. S.
MacKinnon, G.W.	3	Beaverton	Harbord St. C. I., Toronto
MacKinnon, J. D.	8	Lake Ainslie	Boddeck Acad.
MacKintosh, Helen	4	Madoc	Madoc H. S. and Galt C. I.
McLachlan, D. N.	1	Louise Bridge, Man.	Regina H. S. and Manitoba Coll.
McLaughlin, R. E.	1	Morrisburg	Morrisburg C. I.
McLaren, A. H.	1	Ashton	
McLean, Marion	4	London	London C. I.
McLellan, J. A.	2	Esterhazy, Sask.	Prince Wales Coll. & St. Dunstan's Coll., P. E. I.
Maclennan, Cath.	4	Port Hope	Port Hope H. S.
McLeod, D. I.	2	Owen Sound	Owen Sound C. I.
McMichael, Mary.	3	Williamsville	Kingston C. I.
McMillan, G.	5	Glenallan	Stratford C. I.
McNabb, J.	4	Ottawa	Lindsay & Ottawa C. I.
McNeill, J. W.	1	Moosomin, N.W.T.	Manitoba Coll.
McNeill, W.	1	Kingston	Regiopolis Coll.
McPherson, Ed'th	3	Prescott	Prescott H. S.
McPherson, P. G.	3	Bolsover	Lindsay C. I.
McQuarrie, J.	2	Argyle	Lindsay C. I.
McRae, A. R.	2	Ayr	Fergus H. S.
McRae, Caroline	4	Perth	Kingston C. I.
McTavish, Belle	1	Newdale, Man.	Portage la Prairie C. I.
McTavish, R. M.	1	Kingston	Deseronto H. S.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Neeley, W. R.	1	Anderson's Corners, Que.	Huntingdon Acad.
Nelson, A. E.	2	Bradford	Norwood H. S. Peterboro C. I.
Nelson, S. B.	3	Rochester, N. Y.	
Nesbitt, Mabel E.	3	Kingston	Kingston C. I.
Newman, F. L.	1	Kingston	Kingston C. I.
Newland, H. C.	1	High River, Alta.	St. Thomas C. I.
Nicol, Margaret	4	Napanee	Ingersoll H. S.
Nicol, J. L.	4	Jarvis	Port Dover H. S.
O'Brien, J.	3	Esterhazy, Assa.	
Ockley, Beatrice	4	Kingston	Kingston C. I.
O'Connell, Marg'te	4	Peterboro	Peterboro C. I.
Odell, Lena	4	Belmont	Brockville C. I.
O'Donnell, Florence	5	Kingston	Kingston C. I.
Oldham, M. E.	2	Chatsworth	Owen Sound C. I.
O'Leary, W. A.	1	Kingston	Ottawa College
Omond, M. N.	2	London	London C. I. and Western Univ.
Orr, W. J.	4	Kingston	Kingston C. I.
Osborne, N. A.	4	River Herbert, N.S.	Dalhousie Coll, Halifax
Osgoode, J. A.	2	St. Thomas	St. Thomas C. I.
Parker, H. R.	3	Calgary, Alta.	Guelph C. I.
Patterson, Harriet	4	Athens	Brockville C. I.
Paul, C. A.	2	Newburgh	Newburgh H. S. Napanee C. I.
Penney, Elizabeth.	4	St. Thomas	London C. I.
Pierce, Alice L.	1	Willetsholme	Gananoque H. S.
Pierce, Edna	1	Bongards	Picton H. S.
Platt, G. A.	5	Kingston (P'sm'h)	Kingston C. I.
Pomeroy, J. C.	4	Kincardine	Mt. Forest H. S.
Potter, R. C.	1	Didsbury, Alta	Vankleek Hill C. I.
Poole, Edna	3	Poole's Resort	Brockville C. I.
Potter, S. C.	1	Ashton	Carleton Place
Powell, Essie I.	2	Kingston	Kingston C. I.
Pratt, Pauline	3	Peterboro	Peterboro C. I.
Pringle, G. W.	4	Madoc	Madoc C. I.
Quigley, J. P.	6	Kingston	Kingston
Rafter, R.	3	Arthur	Hilcroft Acad.
Ralston, G. D.	3	Ryckman's Cors.	Hamilton C. I.
Ramsay, D. C.	4	Plattsville	Woodstock C. I.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Ramsay, J. A.	1	Oshawa	Watford and Strathroy H. S.
Raney, W. H.	1	Carp	
Raymond, A. L.	6	Williamstown	Williamstown H. S.
Reid, Jean G.	3	Renfrew	Renfrew C. I.
Reive, Annie	2	Markham	Markham H. S.
Reynolds, B. C.	3	Kemptville	Athens H. S.
Reynolds, Lillian	3	Kemptville	Athens H. S.
Rhoades, H. G.	3	Hamilton	Rugby School, Eng.
Richardson, Eliz.	2	Kingston	Kingston C. I.
Richardson, J. A.	4	Kingston	Kingston C. I.
Richardson, Kate	2	Brockville	Brockville C. I.
Rintoul, A.	3	Tatlock	Almonte H. S.
Robb, D.	3	Battersea	Sydenham H. S.
Roberts, W. C.	4	Carleton Place	Carleton Pl. H. S.
Robinson, J.	1	Saltcoats Sask.	Boro Rd. Training Coll., London, Eng.
Robinson, J. C.	3	Kingston	Man. Coll., Winnipeg
Robinson, Mabel	4	Kingston	Kingston C. I.
Roddick, A. M.	5	Lyndhurst	Athens H. S.
Ross, G. E.	1	Hilton	Albert College
Ross, Ethel C.	1	Williamstown	Williamstown H. S.
Rowe, Rebecca	2	Franklin Centre, Que.	Gault Institute, Valleyfield
Ryder, W.	1	Kingston	Lucan H. S.
Sassons, Henry	1	Montreal, Que.	Alliance Univ., Jaffa.
Scott, A. K.	10	Iron Mountain, Mich.	Woodstock C. I.
Schofield, S. J.	5	Kingston	Kingston C. I.
Scott, Carrie L.	3	Napanee	Napanee C. I.
Sears, Alice	1	Kingston	Kingston C. I.
Sharp, G. M.	4	New Liskeard	Renfrew H. S.
Shaver, Jas.	3	Grantley	Morrisburg C. I.
Shaver J.	3	Morewood	Morrisburg C. I.
Shaver, A. V. M.	1	Brantford	Brantford H. S.
Shaver, Alice	5	Winnipeg, Man.	Woodstock C. I.
Shaw, Annie B.	2	Southend, Ont.	Niagara Falls C. I.
Shaw, J. G.	2	New Perth, P.E.I.	P. of W. College
Simpson, J. M.	2	Kingston	Kingston C. I.
Sinclair, J.	4	Toronto	Toronto Univ.
Sine, F. L.	4	Meaford	Hawkesbury
Singleton, Jessie	4	Kingston	Carleton Pl. H. S.
Skene, J. B.	1	Cobourg	Orillia C. I.
Small, Eva M.	1	Badjeros	

NAME.	Year of Attend-ance.	Summer Residence.	Where Educated.
Smart, R. S. . . .	2	Ottawa	Jarvis St. Coll. I., Toronto
Smith, G. H. . . .	4	Kingston	Kingston C. I.
Smith, Harriet I. .	2	South March . . .	Carleton Pl. H. S.
Smith, R. D. . . .	4	Montreal, Que. . .	McGill Normal School
Smith, H. B. . . .	1	Seeley's Bay . . .	Seeley's Bay
Smith, J. C. . . .	1	Comber	Bradford and Essex High Schools.
Snyder, H. A. ..	2	Niagara Falls .. .	Private Tuition
Solmes, Harriette.	4	Picton	Picton H. S.
Somerville, R. H. .	2	Morton	Gananoque H. S.
Speers, J. A. . . .	5	Alliston	Barrie C. I.
Spencer, Amy . .	3	Sault Ste. Marie ..	Brantford C. I.
Spotswood, Edna .	3	Riceville	Alexandria H. S.
Sprague, W. E. ..	2	Belleville	Provincial Normal School
Starr, Hannah J..	2	Newmarket	Jamieson Ave. C. I. Toronto
Stead, J. H. . . .	4	Lyn	Brockville C. I.
Stephens, H. W. ..	1	Cobden	
Stevens, R. S.	2	Delta	Athens H. S.
Stewart, C. H. . .	1	Winnipeg, Man. ..	
Stewart, Annie J. .	2	Renfrew	Renfrew C. I.
Stewart, J. A. ...	4	Kincardine	Kincardine H. S.
Stewart, Lily D....	3	Waba	Renfrew H. S.
Stilwell, G. B. ...	3	Meaford	Meaford H. S.
Stilwell, J. J.	2	Clarksburg	Meaford H. S.
Stirling, J. B. . . .	1	Dundas	Dundas H. S.
Stothers, Minerva	4	Ottawa	Ottawa C. I.
Stott, W.	3	Sapperton, B. C. .	Columbia Coll., New Westminster
Sully, L. K.	4	Ottawa	Ottawa C. I.
Swinburn A. H. ..	1	Ottawa	Ottawa C. I.
Tanton, F. . . .	2	Alvinston	London C. I.
Taylor, May M. ..	1	Clifford	St. Joseph's Convent and C. I. Lindsay.
Thompson, B. W. .	3	Ottawa	Pembroke
Thompson, S. E. .	1	Kingston	Regiopolis College
Tod, A. S.	4	Maguire	Lucan H. S.
Tompkins, Eliz. A.	3	Hintonburg	Ottawa C. I.
Toye, Addie B. ..	1	Kingston	Kingston C. I.
Tracey, W. R. . .	2	Kingston	Hamilton C. I.
Tuck, J. R.	2	Ottawa	Guelph C. I.
Tully, C. J.	2	Consecon	Picton H. S.

NAME.	Year of Attendance.	Summer Residence.	Where Educated.
Turner, A. B.	1	Hamilton	Hamilton C. I.
Turner, N. L.	3	Hamilton	Hamilton C. I.
Urquhart, J. R.	4	Maitland, N. S.	Maitland Acad.
Usher, W. C.	4	Wicklow, Ont.	Brighton H. S.
Van Dusen, E. M.	4	Far Rockaway, L. I.	Napanee C. I. Picton H. S.
Voaden, A.	5	St. Thomas	St. Thomas C. I.
Wagar, C. M.	5	Enterprise	
Walker, A. J.	5	St. Thomas	St. Thomas C. I.
Wallace, S. A.	3	Haley's Station	Renfrew C. I.
Wallace, B. W.	1	Prince Albert, Sask.	Kentville Acad., Acadia and McMaster Universities
Wallace, W. G.	3	Metcalfe	Kemptville
Ward, E. M. H.	1	Hamilton	Collingwood C. I.
Warren, P. J. H.	2	Balderson	Perth
Walsh, M.J	4	Kingston	Kingston C. I.
Watson, Harriet	1	Kingston	Kingston C. I.
Weaver, Maud	3	Trenton	Trenton H. S.
Way, A. E.	2	Pickering	Pickering Coll.
Weaver, Ora O.	2	Trenton	Trenton
Webb, J. R.	2	Effingham	Pickering Coll.
Weir, J.	2	Prince Albert Sask.	Petrolia H. S.
Weir, W. J.	2	Manion	Perth C. I.
Whinton, W. E. H.	6	Kingston	Kingston C. I.
White, H. P.	6	Pembroke	St. Andrew's Coll. Toronto
White, H. T.	4	Bottineau, N. D.	Stratford C. I.
Whitehead, J.	5	Ross Mount	Port Hope H. S.
Williams, K. F.	1	Kingston	Kingston C. I.
Williams, L. J.	5	Watford	Watford H. S.
Wilson, G. H.	2	Ottawa	Ottawa C. I.
Wilson, A.	3	Warkwarth	Campbellford H. S.
Wilson, Alice	1	Lindsay	Univ. of Toronto & Toronto C. I.
Wilson, Mabel A.	1	Mt. Forest	Mt. Forest H. S.
Wilson, Dorothy	3	Bath	Oakville H. S.
Wood, A. V.	2	Peterboro	Peterboro C. I.
Workman, H. C.	4	Kingston	Kingston C. I.
Workman, Kath. G.	1	Kingston	Kingston C. I.
Wright, M. L.	2	Birchton	
Wright, R.	3	Hagersville	
Young, Edith M.	1	Kingston	Kingston C. I.
Young, J. H.	2	Gresham	Port Elgin
Zavitz, A. S.	1	Hamilton	Watford H. S.

POST-GRADUATE STUDENTS (In Arts).

Name.	Address.
Amoss, H. E., B.A.	Corinth
Anning, H. N., B.A.	Oxmead
Archibald, G. G., B.A.	Truro, N. S.
Birch, Beatrice B., B.A.	Kingston
Bolton, L. L., M.A.	Portland
Bothwell, A. M., M.A.	Perth
Brown, G. A., B.A.	Oak Grove
Brydon, R., B.A.	Oustic
Coad, Edith, B.A.	Brockville
Denyes, J. M., B.A.	Whitby
Donnell, J. A., M.A.	Beavertown
Duncan, T. S., M.A.	Westport
Fairlie, J., B.A.	Kingston
Gibson, A. S., B.A.	Kingston
Kaplan, B.M., M.A.	San Francisco, Cal.
Keys, S. J., B.A.	Cornwall
Lindsay, Muriel, B.A.	Portsmouth
Marshall, D. H., B.A.	Campden
May, H. P., B.A.	Little Current
McConachie, J. C., B.A., B.D.	Cranston
MacDonald, J. M., B.A.	Orangeville
MacDonald, J., M.A.	Williamstown
McDougall, L. M., M.A.	Brockville
McEachran, J. M., M.A.	Glencoe
McGregor, D. A., B.A.	Tiverton
MacInnes, W. H., B.A.	Vankleek Hill
McKeracher, D. A. B.A.	Dutton
McNab, Elizabeth M., M.A.	Lindsay
Polson, S. M., M.A.	Kingston
Reid, Lulu, B.A.	Kingston
Stevenson, R. M., B.A.	Ridgetown
Ugiow, W. L., B.A.	Walkerton
Watt, W. J., B.A.	Walkerton
Wilson, R. A., M.A.	Renfrew

GENERAL STUDENTS.

Name.	Address.
Abbott, Muriel	Kingston
Annesley, J.	North Bay
Bell, Mabel	Kingston
Birch, S. R.	Kingston
Burns, Zelica	Kingston
Caldwell, T. N.	Gilchrist
Carrington, Elizabeth G.	Kingston
Crawford, Pearl E.	Kingston
Clarke, H. M.*	Almonte
Donnell, J. A.	Beaverton
Douglas, J. H.	Douglaston
Duggan, F. W.	Toronto
Eade, Anna M.	Kingston
Elliott, Ida E.	Arnprior
Eyre, B.	Kingston
Ferguson, D. A.	Orillia
Forsyth, F. J.	Kingston
Forsyth, H. C.	Kingston
Galloway, J.	Kilmarnock, Scotland
Gibson, M. J.	Kingston
Holland, C. E. Eveline	Ottawa
Jackson, R. C.	Arrowhead, B. C.
Jeffery, O. W.	Elder's Mills
Livingston, S.	Kingston
Loudon, T. G.	Cambray
Martin, G. K.	Dorchester, N.B.
Milloy, Gertrude	Kingston
McCann, Jessie	Kingston
McCrae, J.	Woodbridge
McDermott, J.	Eganville
Oldham, M. E.	Chatsworth
Peardon, Edith	Toronto
Rafter, R.	Arthur
Randall, A. J.	Seeley's Bay
Richards, Mabel	Inverary
Salisbury, C. C.	Warren
Shaver, J. M.	Grantley
Suddard, R.	Cataraqui
Walsh, M. J.	Kingston
Williams, J. L.	Kingston

STUDENTS IN THEOLOGY.

Name and Year.	Address.
Barnard, A. T., B.A., 2nd year	Hamilton
Bates, C. J. L., 2nd year	Tokyo, Japan
Beveridge, R. W., B.A., 2nd year	Port Elmsley

Name and Year.	Address.
Black, B.S., B.A., 2nd year	Kingston
Brown, G. A., B.A., 2nd year	Oak Grove
Brydon, R., B.A. 1st year	Oustic
Caldwell, J. S., 3rd year	Watson's Corners
Cameron, A. E., 3rd year	Wemys
Donnell, J. A., M.A., 3rd year	Beaverton
Duncan, T. S., M.A., 1st year	Westport
Ferguson, J., B.A., 3rd year	Fergus
Kidd, C. E., B.A., 3rd year	Prospect
Kidd, W. J., B.A., 3rd year	Prospect
Lindsay, M. A. F., 3rd year	Sydenham, England
Lynd, L. E., 1st year	Churchill
Marshall, D. H., B.A., 2nd year	Campden
Miller, Fred., B.A., 1st year	Avening
Munro, M. F., B.A., 3rd year	Lancaster
Macdonald, J., B.A., 1st year	Deseronto
MacDonald, J. M., B.A., 3rd year	Orangeville
McDougall, B. M., M.A., 1st year	Brockville
MacInnes, W. H., B.A., 4th year	Vankleek Hill
McKeracher, D. A., B.A., 3rd year	Maitland
MacKinnon, J. D., 3rd year	Ainslie, N. S.
Petrie, J. A., B.A., 5th year	Belleville
Ramsay, D. C., 1st year	Plattsville
Ross, W. M., B.A., 1st year	Earltown, N. S.
Stevenson, R. M., B.A., 2nd year	Ridgetown
Stewart, E. J., 2nd year	Waba
Stewart, J. A., 3rd year	Kincardine
Tod, A. S., 1st year	Maguire
Wallace, H. T., 4th year	Hamilton
Watt, W. J., B.A., 2nd year	Walkerton
Woods, I. H., B.A., 3rd year	London Junction

PRACTICAL SCIENCE STUDENTS.

1905-06

Name.	Address.
Agassiz, W. E. S.	Kigston
Agnew, C. W.	Douglas, Man.
Akins, J. R.	Kinburn
Alder, W. R.	Prescott
Armstrong, A. E.	Ottawa
Arthur, A. J.	Carleton Place
Bailie, A. A.	Billings Bridge
Baker, F. G.	Kingston
Barnum, L. A.	Poughkeepsie, N. Y.
Benn, I. L.	Long Lake
Bennett, J.	Kingston
Berney, K. L.	Athens
Birkett, E. H.	Kingston

Name.	Address.
Bolton, L. L.	Portland
Bowen, G. H.	Gananoque
Brown, C. D.	Kingston
Brown, E. W.	Hawkesbury
Browne, P. J.	Kingston
Bruce, E. L.	Smith's Falls
Burgess, J. A.	Wolfville, N. S.
Callander, R.	Aberdeenshire, Scotland
Calvin, J. D.	Kingston
Campbell, A. S.	Stonewall, Man.
Campbell, T. D.	Perth
Campbell, W. M.	Eganville
Carmichael, J. E.	Strathcona, Alta.
Carr-Harris, A.	Kingston
Chappelle, J. W. S.	Kingston
Chartrand, E.	Chartrand, P. Q.
Code, L. B.	Kingston
Collins, W. H. E.	Chicago, Ill.
Connell, F. M.	Spencerville
Cordukes, J. P.	Elginburg
Cummings, A.	Fernie, B. C.
Cunningham, S. L.	Kingston
Curtin, C. J.	Brockville
Davidson, R. A.	Strathroy
Dempster, H.	Gananoque
Denovan, J.	Dalkeith
Dobbs, G. G.	Kingston
Dobbs, W. S.	Kingston
Drury, C. W.	Kingston
Dupuis, E. L.	Kingston
Ebbern, T. W.	Binscarth
Elliott, R. A.	Woodstock
Elliott, W. J.	Bluevale
Ferguson, D.	Clachan
Findlay, A.	Winnipeg, Man.
Finnie, H. V.	Ottawa
Fleming, A. A.	Craigleith
Fleming, D. B.	Craigleith
Fleming, H.	Craigleith
Fleming, A. G.	Craigleith
Frost, E. S.	Pembroke
Gardiner, C. M.	Kingston
Gardner, K. V.	Ottawa
George, G.	Eganville
George, W. B.	Eganville
Germain, H. A.	Kingston
Gilbert, C. G.	Kingston
Gillies, W. C.	Matapedia, Que.

Name.	Address.
Gleeson, L. J.	Kingston
Gorman, A.	Eganville
Grenon, J. F.	Chicoutinni, Que.
Guy, R. D.	Camden East
Hambley, W. R.	Napanee
Harding, W. M.	Kingston
Hays, C.	Port Colborne
Herriott, G. H.	Souris, Man.
Holbrook, C.	Ottawa
Hope, A.	San Fernando, Trinidad, B.W.I.
Houston, D. W.	Omaha, Neb.
Hubbard, W. H.	Kingston
Irwin, R. T.	Norwich
Jackson, G. W.	Kingston
Jeffery, R. T.	Elder's Mills
Jeffery, J. J.	Nelson, B. C.
Jenkins, G. A.	Orwell, P.E.I.
Jenkins, W. E.	Orwell, P.E.I.
Keith, G. C.	Smith's Falls
Kelso, J.	Wallacetown
Kilburn, D. K.	Stratford
Kilburn, G. H.	Stratford
King, J. L.	Fairfax, Man.
King, S.	Rossland, B.C.
Laturney, F.	Kingston
Lavoie, E.	Baie-St.-Paul, Que.
Lawson, W. E.	London
Lazier, F. S.	Belleville
Lennox, J. S.	Kingston
Lockett, W. F.	Kingston
Lowe, G. S.	Kingston
Lyon, C. D.	Arnprior
Malcolm, L. M.	Stratford
Malloch, E. S.	Hamilton
Marshall, J. H.	Cleveland, Ohio
Matheson, H.	Armow
Millar, T. R.	Kingston
Milliken, J. B.	Strathroy
Murphy, A. A.	Portland
Murray, C. W.	Mission City, B. C.
McArthur, F.	Gore Bay
McCandless, J.	Kingston
McColl, C. R.	Chatham
McCulloch, R.	Souris, Man.
McDowall, R. J.	Kingston
McEachern, J. J.	Gravenhurst
McEwen, D. F.	Hensall
McEwen, R. L.	Carleton Place

Name.	Address.
McIntosh, J. S.	Iroquois
McGinnes, W. C.	Belleville
McGinnis, T. A.	Belleville
McKay, B. R.	Cornwall
McKay, J. G.	Owen Sound
McKay, A. A.	Scotstown, Que.
McKenzie, R. M.	Eganville
McKenzie, M.	Scotstown, Que.
McLaren, G. R.	Perth
MacParland, A. J.	Kingston
Neilson, A. C.	Stella
Newlands, N.	Kingston
Newman, F. L.	Kingston
Nicol, D. S.	Cataraqui
Norrish, B. E.	Walkerton
O'Brien, W. E.	Ottawa
Ockley, R.	Kingston
Orford, C.	De Samar, Idaho
Orr, F. O.	Peterboro
Osborne, J. K.	Consecon
Ostrom, S. A.	Alexandria
Oswald, W. A.	Pontypool
Peeling, C. U.	Campbellford
Pennock, E. L.	Brockville
Perry, O. M.	Perth
Peppard, H.	Springhill, N. S.
Phillips, C. S.	Minden
Pinkerton, W. A.	Portland
Potter, R.	New York City, N.Y.
Pound, R.	Kingston
Pringle, J. F.	Cornwall
Ransom, F.	Kingston
Richardson, G.	Kingston
Richmond, D. W.	Brighton
Roberts, W. H.	Sharbot Lake
Robertson, J. J.	Fergus Falls, Minn.
Rockwell, D. B.	Duluth, Minn.
Rogers, W. R.	Thorndale
Roney, E. W.	Kingston
Ryan, F. H.	Newburgh
Saint, J. B.	Vancouver, B.C.
Sands, J. M.	Kingston
Saunders, H. C.	Kingston
Scott, J. Norris	Kingston
Scott, J. N.	Wallaceburg
Shaver, P. A.	Grantley
Shorey, P. M.	Oshawa
Sills, O.	Ottawa

Name.	Address.
Simmons, G. A.	Simmons, Que.
Smith, R.	Kingston
Smyth, W. L.	Pembroke
Speirs, T.	Appleton
Squire, A.	Kingston
Stanley, O. C.	Port Colborne
Stewart, A. G.	Ottawa
Stidwell, F.	Dutton
Stiles, L. P.	Cornwall
Stothers, J. H.	Ottawa
Stott, J.	Sapperton, B.C.
Sweezy, R. O.	Quebec, Que.
Thornton, L. A.	Peterboro
Timm, W. B.	Westminster
Toffey, F. H.	Portland
Trueman, D.	St. John, N. B.
Twitchell, K. S.	St. Albans, Vt.
Walker, H. W.	Hamilton, Bermuda
Watson, A. R.	Beaverton
Whitmarsh, F. J.	Wolfe Island
Wilkins, J. C.	Trenton
Williams, J. L.	Kingston
Williams, T. B.	Bloomfield
Williams, M. Y.	Bloomfield
Woods, S. A.	Tamworth
Woolsey, W. J.	Black Lake, P. Q.
Wright, G. C.	Kingston
Young, A. C.	Renfrew

STUDENTS IN MEDICINE, 1905-6.

Name.	Address.
Allaire, J.	St. Laurent, Que.
Allen, O. J. McC.	Bayfield, N. B.
Asselstine, B.	Wilton
Austin, C. J.	Governeur, N.Y.
Baker, A. E.	Blackfalds, Alta.
Baker, J. O.	Stornoway, Sask.
Ballantyne, W. H.	Kingston
Barnes, J. A.	Kingston, Jamaica
Barker, R. R.	Forfar
Barker, E. A.	Forfar
Beggs, W.	Hallville
Bell, A. M.	Moscow
Bennett, A. E. H.	Peterboro
Bolton, E.	Philipsville
Bond, H. E.	Kingston, Jamaica

Name.	Address.
Bothwell, N. D.	McGarry
Bowen, H. M.	Gananoque
Bow, M. R.	Winchester
Bracken, E. J.	Ellisville
Bradley, R. M.	Boston, Mass.
Brander, J. F.	Northport, N.S.
Brown, J. E.	Kingston, Jamaica
Brunet, J. E.	Clarence Creek
Buck, L. L.	Railton
Burke, M. L.	Port Ontario, Jamaica
Burns, C. W.	Tweed
Byers, J. C.	Eganville
Byrne, E. P.	Kingston
Cameron, D. R.	Lancaster
Carmichael, S. V.	Spencerville
Carmichael, M. A.	Whycocomagh, N.S.
Carmichael, D. A.	Unionville
Casselman, S. B.	North Williamsburg
Cays, F. A.	Kingston
Charbonneau, J. E.	Hawkesbury
Charlebois, J. A.	Hull, Que.
Chatham, H. E.	Carstairs, Alta.
Clancy, J. P. I.	Newburgh
Claxton, W. H.	Verona
Cliff, G. F.	Carleton Place
Cochrane, H.	Sunbury
Cockburn, G. L.	Sturgeon Falls
Cole, W. H.	Toronto
Collinson, T. J.	Piercefield, N.Y.
Connolly, H. A.	Kingston
Connolly, N. W.	Kingston
Cornett, W. F.	Kingston
Costello, M. C.	Calgary, Alta.
Cotnam, I. D.	Pembroke
Coulombe, P. O.	Cheneville, Que.
Craig, H. G.	Aylmer, Que.
Craig, W. H.	Kingston
Curphey, A. G.	Kingston, Jamaica
Daley, T. V.	Kingston
Dawson, L. M.	Ottawa
Day, H. J.	Kingston
Dear, C. B.	Bridgetown, Barbadoes
Devlin, R. S.	Montreal, Que.
Dick, D.	Ireland
Dingwall, D. G.	Lancaster
Donevan, F.J.	Gananoque
Dougan, J. A.	Lindsay
Doyle, F. J.	Kingston

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Duchesne, J. H.	Ste. Anne de Prescott
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Ellis, R. J.	Ellisville
Falconer, George R.	Kingston, Jamaica
Fee, D. L.	Camden East
Ferguson, A.	Williamstown
Fraser, D. E.	Kingston
Galbraith, J. E.	Arnott
Galloway, J. E. B.	Kingston
Gandier, J. C.	Newburgh
Garayt, S. O.	Montreal, Que.
Gavin, W. F.	Lansdowne
Geddes, W. J.	Deseronto
Gillie, J. C.	Chapleau
Goodfellow, T. J.	Parham
Gordon, G. D.	Kingston
Graham, C. W.	Kingston
Grant, E.	Winnipeg, Man.
Greaves, G. A.	Kingston
Harriss, M. M.	New York City
Harrison, F. W.	Richmond Hill
Hughes, R.	Kingston
Hunter, G. H. V.	Kingston
Hurtubise, J. R.	Ste. Anne de Prescott
Hutton, J. B.	Kingston
Jamieson, H. T. A.	Montreal, Que.
Johnston, J.	Combermere
Johnston, A. C.	Kingston
Keeley, A. J.	Railton
Keeley, F. J.	Railton
Keely, J. M.	Addison
Keyes, S. J.	Kingston
Kennedy, W. D.	Jockvale
Kingsley, F.	Wolfe Island
Kingsley, W. A.	Wolfe Island
Kingsley, V. J.	Wolfe Island
Knight, C.	New York City
Laidlaw, C.	Georgetown
Laidley, W. G.	Kingston
Laing, A. V.	Dundas
Lapierre, J. M.	Buckingham, Que.
Lavell, W. H.	Kingston
Lawler, C. A.	Kingston
Letherland, A.	Elginburg
Little, Thos.	Kingston
Lermont, H. M.	Trinidad, B.W.I.

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Locke, M.	Brinston's Corners
Longmore, H. B.	Camden East
Losee, J. R.	Collin's Bay
Lowe, F. E.	Adelphia, Jamaica
Lucas, S. L.	Kingston, Jamaica
Lyle, W. D.	Havana, N. D.
Mabee, H. C.	Odessa
MacDonald, A.	Frankford
MacKinnon, M. C.	Whim Road Cross, P.E.I.
Maclachlan, A. J.	Glencoe
MacMillan, A. D.	Finch
McGill, A. E.	Kingston, Jamaica
Marcellus, T.	North Williamsburg
Merrick, C. G.	Kingston
Milburn, H. H.	Peterboro
Mills, R. M.	Kingston
Moore, H. E.	Pickering
Morrison, W.	Ashgrove
Murphy, O. W.	Portland
Murtagh, H. J.	Aylmer, Que.
Myers, E. T.	Portland
McCallum, S.	Brewer's Mills
McCann, J. J.	Perth
McCambridge, L.	Kingston
McCormick, A. M.	Ottawa
McCormick, J. P.	Ottawa
McDermott, J. F.	Kingston
McDermott, J. P.	Eganville
McDonald, A.	Scotch Line
McDonald, D. J.	Whycocomagh, N. S.
McFayden, J. Y.	Tignish, P.E.I.
McIntosh, J. H.	Dominionville
McIntosh, F. B.	McDonald's Corners
McKay, M. A.	Grenfell, Sask.
McKenley, A. G.	Chapelton, Jamaica
McKinley, N. J.	Seeley's Bay
McLean, J. A.	Georgetown, B.G.
McLellan, D.	Forrester's Falls
McNamara, J. P.	Stratford
McPherson, C. J.	Metcalfe
McPherson, J. J.	Wigg, P.E.I.
Nicholls, R. F.	Kingston
Nicolle, F. R.	Kingston
Nurse, C. T. C.	Georgetown, B.G.
O'Connor, F. J.	Long Point
Paddell, H. W.	London
Palmer, W. M. R.	Northcote
Patterson, C. A.	Athens

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Patterson, W. E.	Newburgh
Patterson, W. R.	Kingston
Paterson, R. K.	Renfrew
Patterson, G. H.	Stella
Paul, R. D.	Selby
Playfair, L. L.	Kingston
Poaps, W. B.	Vernon
Polson, S. M.	Kingston
Porter, W. C.	Cleveland, Ohio
Presnail, F. C.	Hamilton
Publow, C. A.	Kingston
Quigley, J. P.	Kingston
Quinn, J. S.	Tweed
Ramdeholl, J. E. R.	New Amsterdam, B.G.
Raymond, A. L.	Williamstown
Redden, H. O.	Ernesttown
Reid, J.	Renfrew
Reynolds, B. C.	Kemptville
Rigney, M. G.	Maberly
Robb, D.	Battersea
Rob, A. D. C.	Nashville, Tenn.
Roberts, W. C.	Carleton Place
Robinson, R. H.	Hamilton, Bermuda
Ross, T. R.	Montreal, Que.
Salmon, A. J.	Lucea, Jamaica
Sandwith, B. A.	Whitstable, Eng.
Sargent, F. R.	Kingston
Saunders, T. F.	Rhinebeck, N. Y.
Shannon, S. S.	Kingston
Spankie, W. E.	Wolfe Island
Spankie, A. T.	Wolfe Island
Scott, R. H.	Pembroke
Scott, R. A. N.	Walkerton
Shillabeer, J. C.	Roslin
Spence, H. D. L.	Kingston
Smith, S. H.	Chambers
Snyder, J. B.	Lancaster
Stewart, J. R.	Waba
Stewart, J. A.	Renfrew
Story, G. E.	Kingston
Sullivan, J. H.	Peterboro
Sutherland, E.	Montreal, Que.
Sutherland, B.	Montreal, Que.
Taugher, W. J.	Beachburg
Templeton, C. P.	Napanee
Threadgale, C. A.	Bedford, Warwickshire
Thompson, A. Y.	Strathroy
Thompson, B. H.	Kingston

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Trousdale, F. H.	Hartington
Twitchell, E. G.	Kingston
Usher, W. C.	Wicklow
Wade, J. J.	Balderson
Walker, M. J. O.	Kingston
Wallace, W. G.	Metcalfe
Welwood, T. R.	Saltcoats, Sask.
Wemp, G. E.	Emerald
Wickware, B. L.	Frankville
Wightman, R.	Lancaster
Whinton, W. E. H.	Kingston
Wormwith, N. B.	Kingston
Young, F. S.	Forfar
Young, D. M.	Bristol, Que.
Yule, W. Y.	Gananoque

RHODES SCHOLARS.

1905-1908.

Macdonnell, James, nominated by Queen's University.

1906-1909.

Bothwell, A. M., nominated by Alberta.

Cameron, A. G., nominated by Prince Edward Island.

ARTS HONOUR LISTS FROM 1877 TO 1905.

Alcombrack, R. W., Greek II, '96; Latin II, '97.
Aikin, J. A., Philosophy I, '04; Political Science I, '03.
Allen, J., Mathematics I, '04.
Allen, Maggie D., Botany I, '93; Geology I, '93; Zoology II, '93; Histology II, '93.
Allen, T. G., Natural Science I, '88.
Anderson, F. C., Animal Biology II, '00; Botany I, '00.
Anderson, P. McC., History I, '03; Political Science I, '03.
Andrews, D., Mathematics I, '04.
Anglin, F. R., German II, '94; French II, '95; Italian II, '94.
Anglin, R. W., Mathematics I, '97.
Anning, N. H., Mathematics II, '05.
Anthony, J., Political Science III, '98; Philosophy I, '00.
Arthur, C. C., Chemistry I. '91; Botany I, '91; Zoology I, '91.
Asselstine, E. B., Mathematics, I, '05.
Asselstine, Elizabeth C., German I, '04; French I, '05.
Asselstine, F., Botany I, '97.
Attwood, A. E., Animal Biology II, '95; Botany I, '95.
Ayers, M. H., Botany I, '04; Biology I, '04.
Bajus, Carrie, French I, '01; German II, '01; English III, '01.
Baker, H. M.; Botany I, '91; Zoology I, '91; Geology I, '91.
Baker, M. B., Chemistry II, '00; Geology I, '00.
Baker, W. C., Chemistry I, '95; Mineralogy I, '95; Physics II, '97.
Baker, W. R., Botany II, '96.
Barclay, W. B. C., Latin II, '88; English Literature and History II, '88.
Barker, J., English III, '99; French II, '01.
Barnard, A. T., Latin I, '99; English III, '99.
Barr, Janet, Italian II, '94; French III, '00; German III, '00; English III, '00.
Bates, C. J. L., Philosophy I, '01.
Beall, A. W., Latin I, '88; Moderns I, '88.
Beaton, A. H., History I, '94; Political Science II, '94.
Beaton, K., English III, '97; Latin II, '96.
Beckett, S. E. J., Moral Philosophy I, '04; Political Science I, '05.
Belfour, P. F., Chemistry II, '99; Mineralogy II, '99.
Bell, J. M., Biology I, '99; Chemistry I, '99.
Bellamy, Mabel, English III, '00.
Bennett, C. V., Latin II, '94; Greek II, '94.
Bennett, W. C., Greek III, '97; Latin II, '95.
Bennett, W. H., Latin III, '00; Greek III, '01.
Berlanquet, H. S., Latin II, '96; Greek II, '96.
Berney, Laura, French III, '05.
Bernstein, J. S., History I, '97; Political Science I, '98.
Best, Isabella M., English II, '00; French II, '00; German I, '01.
Billings, T. H., Latin I, '01; Greek I, '02.
Binnie, J., Political Economy I, '88; Philosophy II, '88.
Black, B. S., Latin I, '03; Greek II, '04.
Black, H. H., Latin I, '98; Greek I, '99.

Black, Jean, B., German III, '03; English III, '04.
Black, N. F., German III, '05; French I, '05; English I' '05.
Bloor, W. R., Botany I, '02; Animal Biology I, '02.
Boddy, Martha, Systematic Mineralogy (only), '93; Zoology II, '93; Histology I, '93; Geology I, '94.
Boland, W. A., English I, '05; Political Science I, '05.
Bolton, L. L., Mineralogy I, '03; Geology I, '03.
Bothwell, A. M., French I, '05; History I, '05.
Bower, T. T., Animal Biology II, '98.
Bowermann, J. T., Botany I, '89; Zoology I, '89; Geology I, '89;
Boyd, Annie A., Botany I, '98; Biology I, '98.
Boyd, Mabel E., Botany II, '98; Biology III, '98.
Boyle, J., Mathematics II, '91.
Breck, R. W., Mineralogy I, '95; Chemistry I, '95.
Briden, William M., Classics I, '79.
Brisco, N. A., History I, '98; Political Science I, '00.
Brown, A. B., English III, '97; French II, '98; German III, '98; Italian II, '98.
Brown, G. A., English I, '05.
Brown, J. C., English I, '96; History I, '96.
Brown, P. M., Biology III, '04.
Brown, T. C., Political Science I, '01.
Brown, P. W., Botany I, '04.
Bryan, H. W.; Latin I, '94; Greek I, '94.
Bryant, J. F., Latin III, '01; Greek III, '01.
Brydon, R., Latin I, '05; Greek II, '05.
Bryson, Isabel, English III, '05.
Buchanan, Mabel, French III, '04; History, III, '04.
Burgess, H. H., History I, '96.
Burrows, A. G., Chemistry I, '00; Mineralogy I, '00; Geology I, '01.
Burton, R., English I, '96; Philosophy I, '98.
Caldwell, J. A., History II, '01.
Calhoun, A., Latin I, '01; Greek I, '02.
Cameron, A. R., Latin I, '02; Greek II, '03.
Cameron, C. J., Greek I, '82; Latin I, '82.
Cameron, C. K. O., Histology I, '93.
Cameron, D. R., Animal Biology I, '05; Chemistry I, '05.
Cameron, J., English I, '97; German II, '97; French II, '96; Italian I, 97.
Campbell, Annie G., Moderns I, '91.
Campbell, A. L., English III, '97.
Campbell, C. D., Latin II, '95; Greek II, '96.
Campbell, D., English III, '04; Political Science I, '04.
Campbell, P. McG., Mathematics II, '92.
Canon, J. D., Political Science I, '98.
Carmichael, H., Philosophy I, '97.
Carmichael, N. R., Mathematics I, '90; Greek I, '90; Latin I, '90.
Chambers, L. P., English III, '04; Philosophy I, '05.
Chambers, R., Botany I, '02; Animal Biology I, '02.

Chisholm, W. I., Zoology I, '93; Botany I, '94; Animal Biology I, '94.
Clark, Grace, German I, '03; French I, '04.
Clark, G. W., Latin I, '99; Greek I, '99; English III, '99.
Clark, J. K., Chemistry II, '95.
Clark, J. W., Geology II, '95.
Clark, R. J., Latin II, '95; Greek I, '95; English I, '95; Political Science II, '95.
Clark, W. T., Latin II, '95; Greek II, '95.
Claxton, J., Latin II, '88.
Claxton, J. A., Moderns I, '88.
Cloney, S. Louise, Italian I, '96. German II, '97; French I, '97.
Cloney, S. E., English I, '96.
Clyde, W., Greek I, '86.
Collison, J., Chemistry I, '98.
Collier, W. H., Mathematics II, '98.
Conn, J. R., English II, '96; Political Science I, '96.
Connell, J. C., Mathematics I, '85.
Connell, J., Latin II, '92; Greek II, '92.
Connolly, H. A., Moderns I, '95; English I, '95.
Connor, Grace L., Latin I, '04; Greek I, '05.
Cook, Gertrude, Latin I, '02; Greek II, '03.
Cooke, J., Latin II, '84; Greek II, '84.
Corkill, E. J., Chemistry II, '89; Botany II, '89.
Cowan, S. G., Mathematics III, '04.
Cowley, R. H., Geology I, '92.
Cram, W. S., Latin II, '05.
Crawford, C. M., Latin I, '05.
Crawford, W. F., Philosophy II, '00.
Cryan, G., French III, '97; Italian II, '97; German II, '98; English II, '98.
Croskery, R. A., Latin II, '95.
Cummings, J. C., Physics I, '98.
Cunningham, D., Zoology I, '91.
Curle, W., Mathematics I, '89; Political Economy I, '89.
Currie, P. W., Latin II, '96.
Dadson, Helena, German I, '05; French II, '05; English II, '05.
Dalton, G. F., History I, '97; Political Science III, '98.
Dark, T. A., Mathematics I, '04.
Davis, B. N., Mathematics I, '81; Chemistry I, '81.
Davis, J. S., Political Science I, '97.
Davis, W. H., Philosophy I, '93.
Day, A. E., Moderns I, '95; English I, '96.
Day, J., English III, '01.
Denyes, J. M., Latin II, '95; Moderns, II, '95.
Detlor, W. T., History II, '97.
Dickson, C. W., Animal Biology I, '00; Chemistry I, '00.
Dolan, G., Latin II, '99; English III, '99; Greek II, '00; History I, '00.
Dolan, J. H., Greek I, '97; Latin II, '98.

Donnell, J. A., History I, '02; Political Science I, '02.
Downing, J., Latin II, '92; Moderns II, '92.
Downing, J. J., Latin II, '91.
Dowsley, W. C., English II, '98; Latin I, '98.
Drennan, Ethel, English III, '00.
Drummond, D. R., Greek I, '89; Latin I, '89.
Drummond, W. J., Greek II, '85; Latin II, '85.
Duff, J., Greek I, '99; English I, '99.
Duff, K. Isobel, Mathematics I, '04.
Duncan, T. S., Latin I, '04; Greek I, '04.
Dunkley, A. W., Latin I, '98; Greek I, '99.
Dunkley, W. G., Chemistry II, '02; Mineralogy III, '02.
Dunlop, J. G., Moderns I, '86; English Literature and History II, '87.
Dupuis, J. M., Chemistry I, '79.
Durie, C. L., English II, '99; Political Science I, '99.
Dwyer, J. G., Mathematics II, '02.
Dyde, G. E., English II, '93; Greek I, '89; Latin II, '89.
Dyde, S. W., Classics I, '81; Philosophy I, '84.
Easton, W. H., Philosophy I, '93.
Edmison, G. A., Political Science II, '00.
Edwards, C. B., English II, '99; History II, '99.
Elder, Hosie, Political Science I, '04; English I, '05.
Elliott, E., English II, '86; History I, '86; Moderns II, '86.
Ettinger, J. G., German II, '05.
Ewing, Florence M., French II, '03; English III, '03.
Ewing, W. C., Animal Biology I, '95; Botany I, '95.
Fairlie, J., Mathematics II, '05.
Farquharson, R. A., Moderns III, '97.
Farrell, T. H., Mathematics I, '89.
Fee, W. M., Philosophy I, '99.
Fenwick, A. M., Botany I, '90; Zoology I, '90; Geology I, '90.
Ferguson, R., English Literature and History I, '82.
Ferguson, T. R., Mathematics I, '04.
Fetterly, H. B., Chemistry I, '05.
Findlay, J., Mathematics I, '87; Philosophy I, '90.
Finley, W. A., Greek I, '88; Latin I, '88.
Firth, W. P., Chemistry I, '01.
Fitzgerald, Eliza S., Greek I, '84; Latin I, '84.
Fitzpatrick, A., English II, '95.
Flath, Emma, French III, '02; German III, '02.
Fleming, Maude, French I, '03; English III, '03; Italian II, '02.
Flemng, W. S., History III, '04; Political Science III, '05.
Fletcher, W. H., Botany I, '02; Animal Biology I, '02.
Foik, H. J., French II, '02; German I, '02.
Ford, A. B., Chemistry II, '93; Zoology I, '93; Histology I, '93.
Forfar, Lena M., Political Science II, '03.
Fowler, H. C., English Literature and History, '81.
Fox, C. B., Chemistry I, '94; Histology I, '94; Zoology II, '93.
Folger, Marion, Moderns I, '86.

Fraser, Annie E., English I, '95.
Fraser, J. R., Philosophy I, '93.
Fraser, T., English I, '97; Latin III, '98.
Froats, W. C., Greek I, '03; Latin I, '04.
Furlong, T. H., Botany I, '97; Animal Biology I, '97.
Gallup, E. C., English II, '92.
Gandier, A., English Literature and History I, '83; Philosophy I, '83.
Gandier, J. C., Latin II, '01; Greek II, '01.
Gardiner, S. H., Chemistry I, '86; Natural Science I, '86.
Gavin, F. P., Botany I, '96; Animal Biology II, '96.
Geddes, R. W., Latin II, '96; Greek II, '96.
Gibson, J. C., Mathematics I, '92.
Gilfillan, J., Botany II, '96.
Girvin, H. G., Mineralogy II, '01.
Givan, A., Mathematics I, '83.
Givens, D. A., Mathematics I, '78.
Gober, Mai, English I, '98; History I, '99.
Goodfellow, J., English III, '97.
Goodwill, J. E. L., History II, '03; Political Science II, '03.
Gordon, Wilhelmina, Latin I, '04; English I, '05.
Gould, W. H., Mathematics I, '00.
Graham, P. E., French I, '98; German I, '98; Italian II, '98; English III, '98.
Grange, W. A., Political Science II, '98.
Grant, Ethel, German II, '03; French III, '03.
Grant, J. G., Mathematics II, '02.
Grant, W. L., Latin I, '94; Greek I, '94.
Gray, J. M., English II, '02.
Gray, S. H., Latin II, '94; Greek II, '94.
Grey, Stearns, English I, '03; History I, '03.
Grenfell, Caroline, Italian II, '97; German III, '99; French III, '99; English III, '99.
Grenfell, M. Elizabeth, Italian I, '98; French II, '99; German II, '99; English III, '99.
Grey, S., History II, '02.
Griffin, E. S., Latin II, '89; Moderns II, '89.
Griffith, Agnes J., English I, '95; Moderns I, '96.
Griffith, Edna B., Mathematics II, '96.
Grove, W. G., Mathematics II, '05.
Guess, G. A., Zoology I, '93; Histology I, '93.
Guess, H. A., Chemistry I, '95; Mineralogy I, '95.
Guggisberg, W., Political Science I, '04.
Guy, R. D., Chemistry I, '05; Mineralogy I, '05.
Hadden, A. T., Philosophy III, '05.
Hagan, J. W., Botany I, '03; Animal Biology I, '03.
Haig, A., Chemistry II, '88.
Hales, J., Chemistry I, '88; Philosophy II, '89.
Hall, J. R., Political Science II, '96; Philosophy I, '98.
Hall, T. F., Latin I, '04.

Hamilton, C. F., English Literature I, '90; History I, '90.
Harper, A. M., History I, '00; Political Science II, '00.
Hartwell, G. E.; Greek II, '88.
Harvey, K., Italian II, '94; French II, '95.
Hawes, Ida, German I, '05; French I, '05.
Hawley, A. T., Latin I, '99; Greek I, '99.
Hay, A. G., Political Economy I, '88; Philosophy II, '89.
Hay, J., Philosophy I, '82; Political Economy I, '84.
Hay, W. M., French I, '05; English III, '05.
Haydon, A., English I, '93; History I, '93; Political Science I, '93.
Hazlett, J. W., Chemistry II, '01.
Heap, F., Greek I, '90; Latin I, '90.
Henderson, G. F., English Literature I, '84.
Henderson, M., Political Science III, '00; English III, '01.
Henstridge, Eliz., English I, '96; History I, '97; French II, '00; German III, '00.
Herbison, R., Greek II, '94; Philosophy I, '96.
Herbison, W. J., English II, '95; Political Science II, '95.
Herchmer, Ethel M., English I, '01.
Hermiston, G. M., History II, '95.
Hewton, Gertrude, English I, '02; German I, '03; French II, '05.
Hiscock, Reta, German III, '05; French III, '05.
Hiscock, R. C., Petrography and Economic Geology II, '96; Chemistry I, '96; Mineralogy II. '96.
Hoppins, L. W., Animal Biology III, '02.
Hord, A. H., English I, '01.
Horsey, H. E., Mathematics I, '86.
Hugo, F., English I, '93; Political Science I, '93; History I, '94.
Hume, J. P., Mathematics I, '81; Chemistry I, '81.
Hunter, J. McF., English Literature and History I, '86.
Hunter, R. F., History I, '96; English I, '97.
Hunter, W. R., Animal Biology I, '00.
Hutchison, R. A., Mathematics I, '04.
Hutcheson, R. J., Latin I, '92; Greek I, '92.
Ingall, E. E., English III, '03.
Instant, F. P., English II, '96.
Ireland, F. A. W., Greek I, '91; Latin I, '91; English Literature I, '91.
Irvine, R., Latin II, '81.
Irvine, William H., Mathematics I, '77; Physics I, '77.
Irving, W. G., Political Science II, '94.
Jackson, Fannie, German I, '04.
Jackson, V. W., Botany I, '03; Animal Biology II, '03.
Jameson, Georgina, French I, '99; German I, '99; English I, '99.
Johns, C. P., French I, '96; German II, '96; Italian II, '96; English II, '96.
Johnson, D. B., English III, '01; History II, '01.
Johnston, J. K., Animal Biology I, '97; Botany I, '97.
Johnston, J. R., English Literature and History II, '82.
Johnston, J. W., Botany I, '94; Animal Biology II, '94.

Johnston, W. A., Latin I, '03; Greek I, '03.
Kayler, W. B., Histology II, '93.
Keillor, James, English III, '00; History I, '00.
Kellock, J. McC., English Literature I, '92; History I, '92.
Kellock, W. McC., English II, '96; Political Science II, '96.
Kemp, W., French I, '98; German I, '98; Italian I, '98; English I, '99.
Kennedy, A., Mathematics I, '01.
Kennedy, A. H., English I, '03.
Kennedy, T., Mathematics I, '99.
Kerfoot. H. W., Latin II, '00.
Keys, S. J., History III, '03.
Kidd, A., History II, '04.
Kidd, A. J., Political Science II, '05.
Kidd, C. E., English II, '02; Political Science, II, '03.
Kilborn, O. L., Chemistry I, '87.
King, F., Mathematics I,' 89.
King, W. W., Latin I, '95; Greek I, '95.
Kirkland, W. S., Botany I, '98; Biology I, '98.
Knapp, E., Animal Biology I, '05; Chemistry I, '05.
Knight, C. W., Geology III, '04.
Laing, Mabelle, German III, '03; French III, '03.
Laird, Annie, L., English II, '00; French II, '01; German II, '01
Laird, D. H., Latin I, '98.
Laird, R., Latin I, '92; Greek I, '92; Philosophy I, '95.
Lang, G. R., Philosophy II, '96.
Langford, T. E., Botany I, '98; Biology II, '98.
Lavell, C. F., History I, '93; Political Science I, '94.
Lees, R., Botany I, '90; Zoology I, '90; Geology I, '90.
Lett, R. M., English Literature II, '89; History I, '89; Moderns II, '89.
Lewis, L. L., French II, '99; German II, '99; Italian I, '99; English II, '00.
Leibner, E., Animal Biology III, '00; Botany I, '00.
Lindsay, C. V., History I, '99; Political Science I, '00.
Lindsay, E., History II, '96.
Linton, A. R., Classics I, '80; Philosophy I, '81.
Lockhart, T. J., Zoology I, '91.
Lochead, W. M., History I, '97; Political Science I, '98.
Logie, W. A., Greek I, '87; Latin I, '87.
Loucks, J. E., English III, '01; History II, '01.
Lowe, W. D., Latin I, '01; Greek I, '01; English I, '04.
Malcolm, G., History II, '92.
Malcolm, L., Mathematics I, '05.
Malone, Edith, French I, '99; German I, '99; Italian I, '99; English I, '00.
Malloch, G. S., Greek II, '02; English II, '02.
Marquis, T. G., English Literature I, '91.
Marshall, J., Philosophy I, '87; English Literature I, '91.
Marshall, J. W., Latin III, '98.

Marshall, W. F., Political Science I, '98; English I, '98.
Marty, Aletta E., Moderns I, '93; English II, '94.
Marty, Sarah E., Moderns I, '96; English I, '97.
Mason, G. W., History I, '02; Political Science I, '02.
Matheson, J., Mathematics I, '01.
Matthews, S. W., Mathematics I, '97.
May, H. P., History I, '05.
Meade, R., Botany I, '96; Animal Biology I, '96.
Meiklejohn, A. J., English II, '98.
Menish, Janet I., Moderns II, '95; English II, '95.
Menzies, R. D., Chemistry II, '95; Animal Biology I, '96.
Michell, Kathleen, English I, '05.
Might, L., Biology I, '04; Chemistry I, '04.
Millar, J., Pol. Science I, '89; Philosophy I, '91; English I, '93.
Millar, J. M., English I, '93.
Millar, J. L., English II, '95; Political Science II, '96.
Miller, Eva M., French III, '01; German III, '01; English II, '02.
Miller, J., English Literature and History II, '86; Moderns II, '86.
Miller, J. D., English II, '96; Political Science II, '96.
Millions, Edna, French III, '99; German III, '99.
Mills, J. H., Greek I, '89; Latin I, '89.
Mills, Rhoda, Latin III, '98.
Minnes, R., Mathematics I, '89.
Misener, Geneva, Latin I, '98; Greek I, '99.
Mitchell, G. A., Philosophy II, '99.
Mitchell, G. W., Greek II, '85; Latin II, '85.
Mitchell, J. V., Mathematics III, '03.
Mitchell, S. A., Mathematics I, '94; Physics I, '95.
Moffat, W., Qualitative Analysis (only) I, '93; Zoology I, '93; Histology I, '93; Botany I, '94; Animal Biology I, '94.
Moore, J. R., Botany I, '96; Animal Biology I, '96.
Moore, Margaret B., English III, '04.
Morden, D. N., History I, '05.
Morden, G. W., Chemistry I, '05.
Morgan, J., Animal Biology III, '00; Botany II, '00.
Morrison, A. S., History I, '97; English III, '98.
Morton, Alice, Mathematics I, '99.
Mowat, A., English III, '00.
Mowat, J. McD., English II, '94; Political Science I, '95.
Mudie, Ethel, English III, '99; History I, '99.
Munro, H. B., English III, '98; History I, '98.
Munro, Margaret, German III, '04; French II, '05.
Munro, Maud E., French II, '96; Italian I, '96; German II, '99; English III, '99.
Munro, P. F., Latin I, '03; Greek I, '05.
Munro, W. B., History I, '95; Political Science I, '96.
Murphy, G. B., English III, '04; Political Science I, '04.
Murphy, Isabella, English I, '01; History I, '01.
Murray, D. C., Animal Biology I, '00; Botany I, '00.
Murray, Minnie, Philosophy I, '94.

McCaig, J., English II, '96.
Macalister, Ursilla, Latin I, '00; English I, '00; French II, '01; German II, '01.
McCallum, A. B., Philosophy I, '80.
McCallum, J. A., English II, '00.
McCallum, S., Chemistry I, '03; Mineralogy I, '03.
McClement, W. T., Chemistry I, '87; Natural Science I, '88.
McColl, A. E., Mathematics II, '85.
McColl, J. A., English I, '94; Political Science I, '95.
McConachie, J. C., Political Science II, '02.
McConkey, Eva, History III, '05.
McConkey, Kate, German III, '03; French III, '03.
McCormack, Irene, French III, '04.
McCormack, M., French I, '01; German II, '01.
McCormack, S. G., German I, '03; French I, '03.
McCreary, R. N., Animal Biology I, '95; Botany I, '95.
McCrimmon, Annie L., French II, '02; German II, '02; English III, '02.
Macdonald, Geo., Classics I, '78; Philosophy I. '78; English Literature and History I, '78.
McDonald, J., Latin I, '92; Greek I, '92; English I, '01.
McDonald, J. F., Latin I, '99; Greek I, '00; English I, '99; Political Science I, '01.
McDonald, N., English II, '00.
McDonald, Norval, French III. '99; German II, '99.
Macdonnell, G. F., Latin I, '93; Greek I, '93.
Macdonnell, J. M., Greek I, '04; Latin I, '05.
Macdonnell, J. S., Latin I, '99; Greek I, '99.
Macdonnell, Logie M., Greek I, '02; English I, '04.
Macdougal, C. A., Latin II, '95; Greek II, '95.
McDougall, F. H., Chemistry I, '02; Mineralogy I, '03.
McDougall, J. B., Latin II. '96; Greek II, '96.
McDougall, L. M., Philosophy I, '05.
McDowall, E., History II, '96.
McEachran, J. M., Philosophy I, '02.
MacEwen, G. G., Physics I, '03.
McEwen, J. S., English II, '97.
McGaughey, G. A., History I, '99; Political Science I, '00.
McGibbon, A., Latin I, '97.
McGillivray, Alice, Chemistry I. '84.
Macgillivray, Florence, French III, '04; History II, '05.
McGregor, Annie K., Latin I, '04.
Macgregor, D. A., English II, '05; Political Science I, '05.
McGuire, J., Botany I, '01; Animal Biology I, '01.
McInnes, C. R., Physics I, '95; Mathematics I, '96.
MacInnes, W. H. E., Greek I, '02.
McIntosh, J. W., English I, '94; French I, '94; Italian I, 93; German I, '93.
McIntosh, W. D., Latin I, '92.
McKay, D. A., Animal Biology II, '00; Botany I, '03.

McKay, J. M., Mathematics III, '05.
McKay, M., History I, '79.
McKay, R., Latin I, '81.
McKechnie, J. B., Mathematics I, '03.
McKechnie, J. H., Mathematics I, '02.
McKellar, Kate, Mathematics II, '04.
Mackenzie, Arch. A., Classics I, '77; Philosophy I, '77; English Literature and History I, '77.
Mackenzie, M., Philosophy I, '88.
Mackenzie, Maude E., French III, '05.
McKinnon, M. A., Philosophy I, '00.
McLaren, W. W., English I, '98; Political Science I, '99.
McLean, R. A., Latin I, '04; Greek II, '05.
McLennan, Elizabeth, English II, '99.
McLennan, F. M., Mathematics I, '78.
McLeod, Lola, French III, '04; History III, '04.
McLeod, A., Political Economy I, '82.
McLeod, K. C., Philosophy II, '05.
McLeod, P. A., Political Economy I, '87; Philosophy I, '89.
McManus, Emily, English I, '93; Political Science II, '94.
McMillan, H. H., Mathematics II, '79.
McNab, G. G., Mathematics I, '02.
McNab, R. C., English II, '96; Political Science II, '96.
McNaughton, Elizabeth, Latin I, '99; Greek I, '00; English I, '01.
Macpherson, H., Political Science II, '04.
McPherson, H. G., French II, '96; Italian II, '96; German III, '97; English III, '97.
McPherson, Mary C., French III, '00; German III, '00; English II, '00.
McPherson, N., Philosophy I, '91.
McPherson, W. A., Mathematics II, '91.
McPherson, W. E., English II, '96.
MacQuarrie, W. J., English III, '03; Political Science III, '04.
McRae, A. D., Animal Biology II, '00; Botany II, '00.
McRae, Donella, French II, '00; German III, '00; Italian II, '00; English III, '00.
McRae, F. A., Political Science II, '96; English II, '97.
McRae, T. W. R., English Literature and History I, '86.
McTavish, D., Classics I, '79; Philosophy I, '81.
McVicar, J., Mineralogy II, '93; Animal Biology II, '94; Chemistry II, '96.
Neish, A. C., Chemistry II, '98; Biology II, '98.
Nesbit, D. A., English III, '00; History III, '01.
Neville, K. P. R., Latin I, '97; Greek I, '97.
Newman, G. E., English II, '94; History II, '94.
Newton, Meta, English II, '04; History I, '03.
Nichol, Jennie, Moderns II, '93; History II, '93.
Nichol, W., Chemistry I, '83; Natural Science I, '85; English Literature and History I, '86.
Nicolle, F. R., Animal Biology II, '03; Chemistry II, '03.

Nimmo, H. M., Latin II, '98; Greek I, '98.
Norris, I. T., Mathematics II, '94.
Norris, J., Mathematics I, '93.
O'Donnell, Florence, History III, '05.
O'Reilly, J. R., Political Economy I, '81.
O'Shea, J., English II, '92.
Parker, F. R., Greek I, '87; Latin I, '87.
Patterson, A. O., Latin I, '96; Greek I, '97.
Patterson, W. J., Mathematics I, '88; Political Economy I, '89; Philosophy I, '95.
Peacock, E. R., English I, '94; Political Science I, '94.
Pearce, W. R., Mathematics II, '05.
Peck, W. W., English I, '93; History I, '91; Political Science I, '92.
Penman, A. G., Political Science III, '05.
Pergan, P., History I, '92.
Petapiece, A. W., Animal Biology III, '03.
Pettit, L., English III, '03; History I, '04.
Phalen, R. M., Politcial Economy II, '89.
Philp, J. H., Philosophy I, '03.
Pierce, Ada E., English III, '04; History I, '04.
Pitts, F., Philosophy II, '97.
Platt, G. A., English III, '05.
Playfair, A. W., Greek I, '95; Latin I, '96.
Polson, S. M., English I, '04; Political Science I, '05.
Porter, S. E., Animal Biology II, '96.
Polson, Susan C., English I, '95; History I, '96.
Pope, F. J., Chemistry I, '90; Zoology I, '91.
Pound, F. J., German I, '05.
Powell, G. L., English III, '97.
Power, J. F., Botany I, '96; Animal Biology I, '96.
Power, J. J., History II, '00.
Quigley, J. P., Latin I, '03; Greek I, '03.
Race, W. B., French II, '03; English II, '03.
Ramsay, W., Latin I, '02; Greek II, '02.
Raymond, A. L., Animal Biology I, '05.
Reid, Etta A., Mathematics I, '92.
Reid, G. M., French III, '99; English III, '98; German III, '99; Italian III, '99.
Reid, M. R., Botany I, '97; Animal Biology I, '97.
Reynolds, M., Animal Biology III, '02.
Robertson, A. M., Mathematics I, '96; Moderns I, '96.
Robertson, J. B., French II, '03; English III, '03; History III, '03.
Robertson, M. S., Moderns I, '80.
Rogers, C. S. G., Latin I, '00; Greek I, '01.
Rogers, J. E., English I, '95.
Rogers, W. C., Mineralogy I, '98.
Rose, G. W., Philosophy II, '98.
Ross, A. H. D., Mathematics II, '88; Chemistry I, '93; Zoology II, '93; Histology I, '93.

Ross, A. E., Latin II, '93; Greek I, '93; Sanscrit I, '93.
Row, R. K., Animal Biology II, '97; Botany I, '97.
Russell, W. J., Latin III, 00; Greek III, '00.
Ruttan, Emily, Mathematics II, '02.
Ryckman, F. F., English III, '98; History II, '98.
Ryerson, S. E., Mathematics I, '95.
Saunders, Elsie E., French I, '04.
Saunders, W. J., Botany I, '99; Biology I, '99.
Scott, C. A., Chemistry I, '85; Natural Science II, '85.
Sexsmith, M. E., History II, '02; Political Science III, '02.
Sexton, J. H., Botany I, '98; Biology I, '98.
Shannon, L. W., Chemistry I, '80.
Sharp, J., Political Economy I, '88· Philosophv II, '88; English I, '92.
Shaw, Lily, German II, '03; French III, '03.
Sheppard, F. W., Latin I, '02.
Shibley, G. R., Latin I, '01; Greek I' '01; English II, '02.
Shibley, H. T., Political Economy I, '80; History I, '82.
Shibley, Jennie, English III, '00.
Shibley, L., History I, '90.
Shorey, E. C., Chemistry I, '86; Natural Science I, '86.
Shortell, D. H., English I, '98; History I, '98.
Shortt, A., Philosophy I, '83.
Shortt, J. S., Latin II, '94; Greek I, '94; Political Science I, '97.
Shortt, E. J., Latin I, '96.
Sills, W. R., Mathematics I, '95.
Simpson, B. L., Mathematics I, '04.
Sinclair, E., English III, '97.
Sinclair, J., Political Economy I, '89.
Sinclair, J. A., Philosophy I, '90; Political Science I, '92.
Skelton, O., Latin I, '99; English I, '99; Greek I, '00.
Slack, E. B., Chemistry I, '04.
Smellie, J. F., History II, '90.
Smirle, Harriette, English I, '02; History I, '03.
Smith, A. L., Greek I, '81; Latin I, '82; English Literature and History I, '83.
Smith, J. C., Latin I, '98; Greek II, '98.
Smith, J. H., Geology I, '92.
Scott, R. A., Animal Biology III, '05.
Smith, F. C., Animal Biology III, '97; Botany I, '97.
Smith, V. B., English II, '95; Italian II, '96; French III, '97; German III, '97.
Smythe, G. H., Latin III, '97; Greek II, '97.
Snell, J., Mathematics I, '90.
Snyder, H. Adell, English I, '94; History I, '97.
Solandt, D. M., Political Science I, '99; Philosophy II, '05.
Speer, J. A., Chemistry I, '05.
Spooner, A. C., Moderns II, '96; English III, '96.
Stanley, J. N., Mathematics I, '01.
Staples, L. E., Geology I, '95.

Stewart, E. J., Greek II, '97.
Stewart, J., Philosophy I, '94.
Stewart, J. A., Mathematics I, '92.
Stewart, J. R., Animal Biology II, '03.
Stewart, W., Mathematics I, '79.
Story, Selina G., English I, '00; French I, '01; German I, '01; Italian I, '01.
Stratton, C. M., Chemistry II, '98; Botany II, '99.
Stubbs, J., English II, '99.
Swanson ,W. W., English I, '05; Political Science I, '05.
Tandy, H., French I, '00; German II, '00; Italian I, '00; English III, '00.
Tandy, W. R., English I, '99; Philosophy I, '00.
Taylor, J. A., Botany II, '97; Animal Biology II, '97.
Teskey, Kathleen, German I, '04; French I, '03; English II, '04.
Thompson, A. M., Latin I, '01; Greek I, '02.
Thompson, Edna G., German III, '03; French III, '03.
Thompson, Margaret J., French II, '93; Italian I, '93; German II, '94; English II, '94.
Thompson, P. .M,, Botany I, '98; Biology I, '98.
Thompson, T. J., Philosophy I, '92; English I, '95.
Tompkins, Louise H., French II, '04; English III, '04.
Truscott, S. A., Mathematics I, '04.
Turnbull, J. H., Philosophy I, '96.
Tyner, W. G., Chemistry II, '98; Biology III, '98.
Uglow, W. L., English I, '05.
Vaux, Lilian, English I, '02; Political Science I, '03.
Voaden, J., Botany I, '02; Animal Biology I, '02.
Volume, D. A., Political Science I, '97; History II, '98.
Walker, T. L., Chemistry I, '89; Botany II, '89.
Walks, R. H., English III, '00.
Wallace, J., Latin I, '97; Greek I, '98; Philosophy I, '03.
Warren, F. R. W., Latin II, '00; Greek I, '01.
Warren, L. A. H., Mathematics I, '02.
Watson, E. C., Latin I, '95; Greek I, '95.
Weese, Metta, German II, '03; French, II, '03.
Wells, E. J., Botany I, '03; Animal Biology I, '03.
Whinton, W. E. ., Biology I, '04.
White, J. W., Chemistry II, '88.
Whiting, C. C., Philosophy I, '02.
Williams, Mary I., German II, '04; French II, '04; English III, '05.
Williams, W. H., French I, '02; German I, '02; Italian I, '02; English II, '03.
Williamson, A. R. B., Chemistry I, '96; Animal Biology I, '96.
Williamson, E. J.; Italian I, '99; French I, '99; German I, '99; English I, '00.
Wilson, Annie J., English III, '04.
Wilson, C. L. M., History II, '91; Moderns II, '91.
Wilson, H. L., Greek I, '88; Latin I, '88.

Wilson, R. A., English II, '01; Philosophy I, '02.
Windell, H. C., Latin I, '95; Greek I, '96.
Wood, I., Chemistry I, '91; Zoology I, '91.
Wormwith, N. B., English I, '05; Political Science I, '05.
Wright, J. J., Political Economy I, '87.
Young, J., English Literature and History I, '81.
Young, W., Animal Biology II, '95; Botany I, '95.
Youngson, Mary A., Botany III, '98.

Explanations of the Numbers Attached to the Names in the following List.

PREVIOUS TO 1892.

1. Gold Medallist in Classics.
2. Silver Medallist in Classics.
3. Gold Medallist in Mathematics.
4. Gold Medallist in Philosophy.
5. Gold Medallist in History and English Literature.
6. Gold Medallist in Political Economy.
7. Silver Medallist in Political Economy.
8. Gold Medallist in Chemistry.
9. Silver Medallist in Chemistry.
10. Silver Medallist in Modern Languages.
11. Silver Medallist in Natural Science.

1892 AND AFTERWARDS.

1. University Medallist in Latin.
2. " " Greek.
3*a*. " " German. } from 1903.
3*b*. " " French. }
4. " " English.
5. " " History.
6. " " Philosophy.
7. " " Political Science.
8. " " Mathematics.
9. " " Chemistry.
10. " " Physics.
11*a*. " " Botany. } from 1903.
11*b*. " " Animal Biology. }
20. " " Geology.
28. " " Mineralogy.

12. Prince of Wales' Prize.
13. Governor General's Prize.
14. Gowan Prize; Botany.
15. Macpherson Prize.
16. Thornburn Prize.
17. Lewis Prize.
18. Latin Composition Prize.
19. Greek Composition Prize.
22. Maclennan Prize.
23. Carmichael Prize.
24. Chancellor's Prize.
25. Gowan Prize; Political Science.
26. Hague Prize.
27. English Verse Prize.

NOTE.—The University Medal is now the highest award in honours. Candidates must take all the honour papers in the work of the courses selected and no medal is awarded to any candidate who fails to obtain three-fourths of the whole number of marks.

LIST OF GRADUATES.

Graduates are requested to intimate to the Registrar, change of residence or any omission in the list.

Names marked with an asterisk are names of clergymen.

Name.	Date of Graduation.	Address.
Abbott, George A., M.D.	1895	Watertown, S.D.
Abbott, Rodney H., M.D.	1879	Kingston.
Abbott, Samuel A., M.D.	1868	(Deceased).
Aberdeen, His Excellency the Earl of, LL.D.	1894	London, Eng.
Aberdeen, Her Excellency the Countess of, LL.D.	1897	London, Eng.
*Acheson, Stuart, B.A.	1887	Wiarton.
Adams, George T. C., M.D.	1892	Melbourne, Victoria.
Adams, Joseph, M.D.	1892	Plevna.
Adamson, Herbert A., M.D.	1892	Richmond, Utah, U.S.
Agnew, Andrew, B.A.	1865	
Agnew, John, B.A., 1859; M.A., 1872; M.D.	1865	(Deceased).
Aikin, J. A., M.A.	1904	"The Phoenix," Saskatoon, Sask.
Alcombrack, R. W., B.A.	1895	44 Pine St., New York.
Alexander, Francis R., M.D.	1881	(Deceased).
Alexander, James A., M.D.	1869	Deceased).
Allan, Laura E., B.A.	1899	Toronto.
Allen, Alfred G., M.D.	1887	Deadwood, S. Dakota.
Allen, James R., M.D.	1894	Olean, N.Y.
8Allen, John, M.A.	1904	Napanee.
Allen, Maggie D. (Hutcheon), M.A.	1895	Cambridge, Mass.
14, 8Allen, Thos. G., B.A., 1888; M.D.	1889	Chicago.
Allen, Emily, B.A.	1898	Kingston.
Allison, D., (President of Univ. of Mt. Allison College), LL.D.	1903	Sackville, N.B.
Allison, D. M., M.D.	1900	
Allison, Mary L., B.A.	1902	Adolphustown.
Alway, Enoch, M.D.	1869	Bartonville.
Ames, James A., M.D.	1895	Rush, N.Y.
Ami, Henry M., M.A., D.Sc.	1892	Ottawa.
Amos, W. W., M.D.	1902	N. W. T.
Amoss, H. E., B.A.	1905	Aylmer West, Ont.
Amys, C. H., M.D.	1899	Lakefield.
Anderson, F. C., B.A.	1900	Cobourg.
Anderson, James J., M.D.	1887	Winchester Springs.
Anderson, P. M., M.A.	1903	

Name.	Date of Graduation.	Address.
Anderson, N. W., M.D.	1888	Lumsden, N.W.T.
Anderson, William J., M.D.. ..	1894	Easton's Corners.
Anderson, William J., M.D.. ..	1861	Smith's Falls.
Andrews, D., M.A..	1904	Trenton.
Andrews, Francis, D.D..	1901	(Deceased).
Anglin, Francis R., B.A..	1895	Kingston.
Anglin, Harriet, B.A..	1901	Kingston.
Anglin, Robert W., M.A..	1897	Essex.
Anglin, James V., B.A., 1883; M.D..	1887	St. John, N.B.
Anglin, Robert S., M.D..	1882	Omaha, Neb.
Anglin, Samuel, B.A..	1905	
Anglin, Sarah E.,(Sparling) B.A.	1892	Winnipeg.
Anglin, William G., M.D., (Professor Queen's University)..	1883	Kingston.
Anning, N. H., B.A., 1905; M.A.	1906	Oxmead.
Anson - Cartwright, R. H. M., B.Sc..	1904	Belleville.
6, *Anthony, James, M.A..	1898	Waterdown.
Archibald, G. G., B.A..	1903	Truro, N.S.
Argyle, His Grace the Duke of, LL.D....	1879	Inverary Castle, Scotland.
Armour, James, B.A..	1886	Perth.
Armstrong, Albert, M.D..	1867	Arnprior.
Armstrong, Alfred, M.D..	1886	(Deceased).
Armstrong, C. C., M.D..	1898	Warkworth.
Arthur, Colin C., M.A...	1891	Cobourg.
Arthur, Leona, B.A.	1906	Consecon, Ont.
Arthur, Nellie, B.A.	1906	Consecon, Ont.
Arthur, S. W., B.A., 1900; M.D.	1903	Redvers, N.W.T.
Ash, A. F., M.D..	1901	Bradford, Pa.
Ashton, John J., B.A....	1886	
Asselstine, David P., B.A..	1892	Kingston.
Asselstine, Elizabeth C., B.A., 1904; M.A...	1905	Kingston.
Asselstine, E. B., B.A., 1904; M.A..	1905	Wilton.
Asselstine, Henry A., B.A.. .. .	1876	
Asselstine, Oliver, M.A.....	1906	Wilton, Ont.
Asselstine, Robert W., B.A.....	1894	Dunnville, Ont.
14Attwood, Albert E., M.A.. ...	1896	Ottawa.
Austin, Griffin H., M.D..	1893	Cairo, N.Y.
*Awde, James, B.A..	1879	Niagara Falls.
11aAyers, M. H., M.A..	1903	Chatham, Ont.
Aykroyd, W. H., M.D..	1903	Railton.
Aylesworth, Archibald K., M.D.	1863	(Deceased.)
Aylesworth, F. A., M.D..	1903	Bath.

Name.	Date of Graduation.	Address.
Aylesworth, F. L., B.A.	1902	Kingston.
Aylesworth, Mabel E., B.A.	1904	Bath.
Bailey, R. W., M.D.	1904	Kingston, Jamaica.
Bailey, W. L., M.A.	1904	Gravenhurst.
Bailie, A. A., B.Sc.	1906	Billing's Bridge.
Bailie, Thomas H., M.D.	1892	
Bain, Angus U., B.A.	1888	C.P.R. offices, Toronto
12Bain, Hugh U., B.A., M.D.	1871	(Deceased.)
Bain, Hon. Mr. Justice J. F., B.A.	1867	(Deceased.)
*Bain, William, B.A., 1845; M.A., 1847; D.D.	1872	(Deceased.)
Bain, William G., B.A.	1886	(Deceased.)
Bain, William R., B.A.	1863	
3aBaird, A. W., M.A.	1906	Brockville.
Bajus, Carrie, B.A.	1901	Kingston.
Baker, C. W., B.Sc.	1905	265 Penn Av., Wilkinsburg, Pa.
Baker, Hat. M., (Thompson) M.A.	1892	(Deceased.)
Baker, H. S., B.Sc.	1902	Pittsburg, Pa.
Baker, Herbert W., B.A.	1891	Vancouver, B.C.
Baker, J. C., B.Sc.	1903	Surveyor, Dep't of Indian Affairs.
Baker, J. Y., B.A., 1896; M.D.	1899	Dalhousie Mills.
20Baker, M. B., B.A., 1900; B.Sc.	1902	Kingston.
Baker, Thomas C., M.D.	1888	Chatham.
Baker, William C., M.A.	1895	Kingston.
Baker, James G., B.A.	1897	Summerstown.
Balfe, T. H., M.D.	1882	Hamilton.
Ballagh, James H., B.A.	1878	
Bamforth, Richard, B.A.	1897	Rednersville.
Bannister, Percy G., M.D.	1897	
Bannister, J. A., B.A.	1898	Kingston.
Barber, Albert E., M.D.	1892	South Bend, Ind.
Barber, Vincent, M.D.	1897	Brooklyn, N.Y.
Barclay, William B. C., B.A.	1888	Arnprior.
Barker, Alexander N., M.D.	1893	(Deceased.)
Barnard, A. T., B.A.	1899	Hamilton.
Barnet, T. J., M.D.	1900	(Deceased.)
Barr, Janet, B.A.	1900	North Bay H. S.
Barrett, H. M., B.A.	1903	Windsor.
Bateman, Francis J., B.A.	1888	Christiana.
Bateman, G. C., B.Sc.	1905	Guanajuato, Mexico.
*6Bates, C. J. L., M.A.	1901	Tokio, Japan.
Battisby, Rev. Jas. D.D.	1905	Chatham.
*Baxter, John C., D.D.	1878	(Deceased.)
*Bayne, James, D.D.	1865	(Deceased.)
10Beall, Arthur W., B.A., 1888; M.A.	1892	Peterboro.

Name.	Date of Graduation.	Address.
5Beaton, Alexander H., B.A.	1894	Toronto.
Beaton, Kate F., B.A., (Mrs. H. Nimmo)	1897	Detroit, Mich.
Beattie, John A., B.A.	1891	Binscarth, Manitoba.
Beattie, William, M.D.	1866	Wiarton.
Beatty, Elizabeth R., M.D.	1884	Lansdowne.
Beachard, David, M.D.	1887	Tecumseh.
Beckett, James, M.D.	1863	(Deceased.)
25Beckett, S. E. J., B.A., 1903; M.A.	1905	Winnipeg.
*Beckstedt, I. N., B.A.	1899	Toledo, Ont.
Beeman, Truman A., M.D.	1887	Mallorytown.
Beeman, Thomas W., M.D.	1878	Perth.
Beeman, William C., M.D.	1886	Ottawa.
Begg, Colin L., B.A.	1895	Orillia.
Begg, John W., M.D.	1888	
Begg, William P., M.A., D.D.	1896	Messina Springs.
Belch, John A., M.D.	1889	Syracuse, N.Y.
Belfour, P. F., B.A.	1899	Marlbank, Ont.
Bell, Alexander, M.D.	1865	Lakefield.
Bell, Andrew, B.A.	1853	Almonte.
Bell, F. C., B.A.	1905	Winnipeg, Man.
Bell, F. M., M.D.	1903	Ottawa.
*Bell, George, B.A., 1845; LL.D.	1872	(Deceased.)
Bell, George, B.A.	1878	Toronto.
Bell, James M., M.D.	1857	(Deceased.)
9Bell, J. M., M.A., Director Geol. Survey of New Zealand)	1899	Wellington, N.Z.
Bell, John, B.A., 1862; M.A., 1865; M.D.	1866	(Deceased.)
*Bell, John, B.A.	1890	(Deceased.)
Bell, John H., M.D.	1890	Kingston.
Bell, Josiah, B.A., 1864; M.A.	1877	Toronto.
Bell, Robt., LL.D., Assist. Direc. Geological Survey of Can.).	1883	Ottawa.
*Bell, William, B.A.	1855	(Deceased.)
Bellamy, A. W., M.D.	1897	Irondoquoit, N.Y.
Bellamy, Mabel, B.A.	1901	Prescott.
*Bellis, George, D.D.	1880	(Deceased.)
Belton, W. J., M.D.	1892	(Deceased.)
*Bennett, Orr, B.A.	1886	Almonte.
Bennett, Charles V., B.A.	1894	Lethbridge, Alta.
Bennett, H J, M.D.	1905	Gananoque.
Bennett, Henry, M.D.	1878	(Deceased.)
*Bennett, J. W. C., B.A.	1897	Wychwood.
Bennett, W. L., B.A.	1903	Port Hope.
Bennett, W. H., B.A.	1901	599 Spadina Av., Toronto.

Name.	Date of Graduation.	Address.
Benson, J. R., B.A., 1853; M.D..	1858	(Deceased.)
*Bergne, Samuel B., D.D..	1865	London, Eng.
Berlanquet, Hugh S., B.A..	1886	Admaston.
Bermingham, Mary E., (Macarow) M.D..	1882	Kingston.
Bermingham, F. H., M.D..	1892	New York, N.Y.
Bernard, Gerald, M.D..	1871	Newcastle-on-Tyne, England.
Berney, K. C., B.Sc.	1906	Athens.
Berney, Laura E., B.A.	1906	Kingston.
Bernstein, J. S., M.A..	1898	New York City.
Berry, George H., M.D..	1895	Westport.
Bertram, Thomas A., M.D..	1885	Dundas.
Best, Isabel M., B.A. (Watt)...	1901	Mansewood, Ont.
Bethune, Alexander, M.D..	1858	Seaforth.
Bethune, Harry F., M.D..	1869	Clanbrassie.
Bethune, William, B.A..	1864	
Betts, Alfred H., M.D..	1875	(Deceased.)
Betts, John H., M.D..	1881	(Deceased.)
Beveridge, Alice B., (Porteous) B.A..	1892	Jersey City.
Beveridge, R. W., B.A...	1905	Port Elmsley.
Bice, Mark, M.D..	1869	Mount Brydges.
Biggar, George W., M.D..	1862	Grimsby.
Bigham, Hugh, M.D...	1864	(Deceased.)
Bigham, James, M.D..	1868	Peterboro.
Bigham, John, M.D..	1865	(Deceased.)
Billings, T. H., M.A...	1902	McGill Univ., Montreal, Que.
Bilton, William J., M.D..	1892	(Deceased.)
Bingham, James, M.D.	1868	Peterborough.
*Binnie, James, B.A., 1889; M.A., 1890; B.D..	1892	Tweed.
Birch, BeatriceD., B.A..	1904	Kingston.
Bird, Francis W., M.D..	1859	(Deceased.)
Bird, Nelson J., M.D..	1860	San Francisco, Cal.
Birkett, F. W., M.D..	1898	Ottawa.
Bishop, C. P., B.A..	1900	Athens H. S.
Bissonnette, Julian D., B.A., 1880; M.D..	1892	Stirling.
*Black, Armstrong, D.D..	1900	
Black, Benjamin F., M.D..	1893	
Black, B. S., B.A..	1904	Kingston.
Black, Jean B., B.A..	1904	Hamilton.
Black, H. H., B.A., 1898; M.A..	Toronto.	
*Black, John, D.D..	1876	(Deceased.)
Black, John A., B.A..	1891	Massie.
3bBlack, Norman F., M.A....	1905	Weyburn, Sask.

Name.	Date of Graduation.	Address.
Black, William A., M.D.	1862	(Deceased.)
Blakeley, Robert, M.D.	1861	(Deceased.)
Bland, Rev. Salem (Professor of Wesley College), D.D.	1903	Winnipeg, Man.
Blaylock, Ella, M.D. (Atherton).	1887	Nashua, New Hamp.
Bleasdell, Charles E., M.D.	1868	(Deceased.)
Bleecker, G. H., M.D.	1902	Trenton.
Bloor, W. R., M.A.	1902	Pullman, Wash.
Boddy, Martha, B.A.	1894	Manitoba.
Bogart, I. G., M.D.	1901	Kingston.
Bogart, J. L. H., B.Sc.	1903	Militia Dept. Ottawa.
Boland, W. A., M.A.	1905	Yorkton, Sask.
20, 28Bolton, L. L., M.A., 1903; B.Sc.	1906	Portland.
Bongard, Edna E., B.A.	1906	Picton.
Bonner, John, B.A., 1845; M.A.	1847	(Deceased.)
Booth, Donald B., M.D.	1868	(Deceased.)
Borden, Robert L., K.C., M.P., LL.D.	1903	Ottawa.
Bothwell, A. M., M.A.	1905	Perth.
*Borley, H. D., B.A.	1903	
Boucher, Joseph A., M.D.	1894	Watertown, Mass.
Bouchier, H. P., B.A.	1853	(Deceased.)
Bourinot, John G., LL.D.	1887	(Deceased.)
Bourns, Thomas C., M.D.	1892	Whitney.
Bourns, William H., M.D.	1892	Adison.
Bovey, Henry T., M.A., LL.D., (Prof., McGill University).	1893	Montreal.
Bowen, George H., M.D.	1887	Gananoque.
Bowen, Robert, M.D.	1865	H. M. Service.
Bowerman, John T., M.A.	1891	(Deceased.)
Bowers, Samuel S., M.D.	1857	(Deceased.)
Bowie, H. A., M.D.	1901	
Boyd, Agnes M., B.A.	1904	Kingston.
Boyd, Annie A., B.A., 1897; M.A.	1898	Ladies' Coll., Ottawa.
Boyd, Edward, LL.B.	1863	
*Boyd, John D., B.A.	1889	Kingston.
Boyd, M. E., B.A.	1898	Ottawa.
Boyle, Arthur A., M.D.	1859	
Boyle, Joseph, B.A., 1891; M.D.	1896	Casselman.
*Boyle, W. H. W., B.A.	1884	Lake Forest.
Bradley, Gordon F., B.A.	1890	Manitou, Man.
Brady, James, M.D.	1891	
Brandon, J. S., B.A.	1899	Trail, B.C.
Brandon, W. M., B.A.	1899	Toronto.
Branigan, P. K., M.D.	1862	(Deceased.)
Branscombe, M. E., B.A., 1903; M.D.	1904	Picton.
Bray, John L., M.D., 1863; LL.D.	1905	Chatham, O.

Name.	Date of Graduation.	Address.
Breuls, I. D., B.A.	1900	Toronto.
Brick, N. W., B.A.	1903	Kingston.
12Briden, William, B.A.	1880	Ingersoll.
Bridge, B. B., M.D.	1900	Albert City, Iowa.
Bridgeland, Samuel, M.D.	1870	(Deceased.)
Brien, James, M.D.	1872	Essex Centre.
Bright, A., B.A.	1905	Peterboro.
25Brisco, N. A., B.A., 1898; M.A.	1900	Columbia Univ., N.Y.
Britton, A. H., B.A.	1903	Toronto.
Britton, Edward H., B.A.	1884	Kingston.
Britton, Mildred G.,(Brock) B.A	1899	Kingston.
28Brock, Reginald W., (Acting Professor, School of Mining), M.A.	1895	Kingston.
Brokenshire, W. H., B.A.	1902	Buffalo, N.Y.
Brough, Thomas A., B.A.	1893	Vancouver, B.C.
Brown, Albert H., B.A.	1896	Ottawa.
Brown, Amelia, B.A.	1898	Kingston.
Brown, Frederick M., B.A.	1890	Saskatoon, Sask.
Brown, G. A., B.A.	1904	Oak Grove.
Brown, George E. J., LL.B.	1894	Creemore.
Brown, Jonathan, M.D.	1893	New Lothrop, Mich.
*Brown, James A., B.A.	1883	Agincourt.
5, 22Brown, J. C., B.A., 1894; M.A	1896	Williamstown.
Brown, J. G. Williston, B.A.	1890	
Brown, J. W., B.A.	1901	Hanover.
Brown, Marshall J., M.D.	1856	Kingston.
Brown, P. W., B.A.	1905	Sydenham.
Brown, Sara A., M.D.	1890	
Brown, T., B.Sc.	1904	Hawkesbury.
*6Brown, T. C., B.A., 1903; M.A.	1904	Toronto.
Brown, W. C., M.D.	1904	Bellview.
Brown, William G., B.A.	1881	Toronto.
Brown, W. T., B.A.	1901	
Bruce, Frederick, M.D.	1886	Mount Morris, Mich.
*Bryan, Andrew C., B.D.	1895	Nanton, Alta.
Bryan, George J., B.A.	1888	Ca'gary, Alta.
Bryan, Hugh W., B.A., 1893; M.A.	1894	Brockville.
Bryant, J. F., B.A.	1901	
Bryce, Walter, B.A.	1896	Toronto.
1Brydon, R., B.A.	1903	Oustic.
Brymner, Douglas, LL.D.	1892	(Deceased.)
Bryson, Isabel S., B.A.	1905	Ottawa.
Bryson, Mary G., B.A.	1899	Ottawa.
Buchanan, H. M., M.D.	1889	St. Lawrence, N.Y.
*Buchanan, John H., B.A.(Medical Missionary)	1885	Amkhut, India.
Buchanan, Mabel A., B.A.	1904	Lanark.

Name.	Date of Graduation.	Address.
Buckley, Patrick D., LL.B.	1863	(Deceased.)
Bullis, William H., M.D.	1884	Rochester, N.Y.
Burdett, Harry E., M.D.	1886	St. Paul, Minn.
Burger, C. H., M.D.	1898	Kingston, Jamaica.
Burgess, H. H., B.A.	1899	Owen Sound.
Burgess, Jas. E., B.A., 1868; M.A.	1876	London.
Burns, Clement B., B.A.	1890	Dawson City, Y.T.
*Burns, James C., D.D.	1884	(Deceased.)
Burns, Olive M., B.A.	1906	Kingston.
*Burns, Samuel S., B.A.	1894	Stirling.
15Burns, William, B.A.	1886	Vancouver, B.C.
Burr, Lenne G., B.A.	1903	Ameliasburg.
20, 28Burrows, A. G., M.A., 1900; B.Sc.	1902	Napanee.
Burrows, John G., M.D.	1891	Marlbank.
*4, 6Burton, Robert, M.A.	1898	(Deceased.)
Burton, S., M.D.	1900	Redfield, Oswego Co., N.Y.
*Burwash, N. (Chancellor of Victoria University) LL.D.	1903	Toronto.
Butler, Tobias J., M.D.	1895	
Byers, Robert P., B.A.	1893	Prospect Ave., Buffalo, N.Y.
*Byrnes, J. D., B.A., 1898; B.D.	1901	Gore Bay.
Byrnes, Marie, B.A.	1903	Cumberland.
*Caie, George J., B.A.	1861	Forfar, Scotland.
Cairns, D. D., B.Sc., 1905; M.E.	1906	Geol. Survey, Ottawa.
Caldwell, Daisy, B.A.	1901	Sydenham.
*Caldwell, J. A., B.A.	1902	Pilot Mound, Man.
*Caldwell, J. S., B.A.	1904	Watson's Corners.
Caldwell, Maxwell, B.A.	1904	Ottawa.
Caldwell, William C., B.A.	1866	(Deceased.)
2Calhoun, A., M.A.	1902	Ottawa.
Callfas, W. F., M.D.	1898	St. Louis, Mo.
Calvin, D. D., B.A.	1902	Kingston.
Calvin, J. D., B.A.	1904	Kingston.
Calvin, Marion, B.A.	1901	Kingston.
Camelon, Thomas P., M.D.	1890	
Cameron, Alexander D., M.D.	1882	Spaulding, Nebraska.
*Cameron, A. E., B.A.	1903	Florence.
Cameron, A. G., B.A.	1906	Montague, P.E.I.
Cameron, A. R., B.A.	1903	Prescott.
Cameron, C. Alice, B.A.	1888	Philadelphia.
*Cameron, Charles I., B.A., 1861; M.A.	1868	(Deceased.)
1*Cameron, Charles J., B.A., 1886; M.A.	1887	Philadelphia, Pa.
Cameron, Dan, M.D.	1887	(Deceased.)
Cameron, D. R., M.A.	1905	Lancaster.

Name.	Date of Graduation.	Address.
*Cameron, Hugh, B.A.	1876	Morrisburg.
Cameron, James C., B.A., 1888; LL.B.	1896	Cornwall.
Cameron, John, B.A.	1864	
*Cameron, James Y., M.A.	1865	(Deceased.)
Cameron, Wm. A., B.A., 1887; M.D.	1890	
Cameron, Jessie, B.A.	1897	Almonte.
Campbell, Agnes L., B.A.	1898	
Campbell, Albert L., M.D.	1889	
*Campbell, Alexander, B.A.	1862	Stonewall, Man.
*Campbell, Alexander J., D.D.	1887	Geelong, Aus.
10Campbell, Archibald L., M.A.	1906	Fergus.
Campbell, Annie G., (Macgillivray) B.A.	1891	Kingston.
*Campbell, Colin D., B.A.	1896	Chicago.
Campbell, Daniel, B.A.	1904	Ottawa.
Campbell, Donald, B.A.	1850	(Deceased.)
Campbell, George, M.D.	1859	H. M. Navy.
*Campbell, George D., B.A.	1895	Chalk River.
Campbell, J. A., B.A.	1900	Keene.
Campbell, James W., M.D., Professor, Queen's University	1891	Kingston.
*Campbell, John, B.A., 1847; M.A	1850	(Deceased.)
*Campbell, John, Prof., Presbyterian College, Montreal, D.D.	1903	(Deceased.)
*Campbell, J. Fraser, D.D.	1897	Rutlam, Cen. India.
Campbell, John H., M.D.	1856	(Deceased.)
Campbell, Joseph, M.D.	1867	Ontario, N.Y.
Campbell, Joseph S., M.D.	1890	Ontario, N.Y.
Campbell, Lizzie V., B.A.	1899	Smith's Falls.
*Campbell, Neil, B.A.	1883	Oro Station.
Campbell, Peter McG., B.A., 1892; M.D.	1896	Cardston, N.W.T.
*Campbell, Robert, B.A., 1856; M.A., 1858; D.D.	1887	Montreal.
*Campbell, Robert, B.A., 1867; M.A., 1870; D.Sc.	1884	Perth.
Carey, N., M.D.	1903	Bakersville, Vt.
Carefoot, G. A., B.A.	1904	Newmarket.
Carmichael, Andrew, M.D.	1861	Sundridge.
*6Carmichael, Harvey, M.A.	1897	Richmond, Que.
*Carmichael, James, D.D.	1892	King, Strange.
Carmichael, James F., B.A.	1887	
2Carmichael, Norman R., (Prof., Queen's University) M.A.	1890	Kingston.
Carmichael, R. F., B.A., 1900; M.D.	1900	(Deceased.)
Carr-Harris, A., B.Sc.	1906	Kingston.

Name.	Date of Graduation.	Address.
Carr-Harris, F. F., M.D.	1901	42nd St. and Lexington Ave., N.Y. City.
Carruthers, J. S., M.D.	1904	North Sidney, C. B.
Cartwright, Alexander D., B.A.	1885	Ottawa.
Cartwright, Richard C., M.D.	1884	Rochester, N.Y.
Carscallen, Allen B., M.D.	1875	Enterprise.
Carscallen, W. E., M.D.	1897	Tamworth.
Cartwright, C. T., B.Sc.	1905	Trail, B.C.
Caskey, J. C., M.D.	1904	Tweed.
Carswell, Jennie, B.A.	1896	Renfrew.
Case, George H., M.D.	1876	(Deceased.)
Casselman, Joseph, M.D.	1886	
Cathro, Eizabeth D., B.A.	1905	Regina, Sask.
*Cattanach, James, B.A.	1889	
Cattanach, Jessie S., B.A.	1904	Williamstown.
*Cattanach, John C., B.A., 1868; M.A.	1881	(Deceased.)
*Caven, William, D.D., (Principal Knox College)	1875	(Deceased.)
Cavers, T. W., B.Sc.	1904	Gananea Consol. Copper Co., S.A., Gananea, Sonora, Mex.
Chaffey, Ellsworth, M.D.	1871	
Chamberlain, T. F., M.D., Insp. Prisons	1862	Toronto.
Chamberlain, Watson P., M.D.	1888	Toronto.
Chambers, Alice, B.A.	1888	Los Angeles, Cal.
Chambers, Daniel, M.D.	1855	(Deceased.)
6Chambers, L. P., M.A.	1905	Bardezag, Ismidt, Turkey in Asia.
Chambers, Mary M.,(Lavell)B.A	1891	Smith's Falls.
*Chambers, Robt., B.A., 1866; D.D	1897	Bardezag, Ismidt, Turkey in Asia.
Chambers, R., jr., M.A.	1902	Bardezag, Ismidt, Turkey in Asia.
Chambers, William, B.A.	1883	Los Angeles, Cal.
Channonhouse, John, M.D.	1863	Eganville.
Channonhouse, R. C., M.D.	1889	Richmond.
Channonhouse, Thomas, M.D.	1860	(Deceased.)
Chant, Joseph, M.D.	1905	Chantry.
Chapman, A. B., M.D.	1899	Reston, Man.
Chapman, Edward J., LL.D.	1867	(Deceased.)
*Childerhose, Stephen, B.A.	1884	Parry Sound, Ont.
Chisholm, James, B.A., LL.D.	1892	Hamilton.
*Chisholm, John, B.A.	1878	Kemptville.
Chisholm, Harvey F., M.D.	1857	(Deceased.)
11Chisholm, William I., M.A.	1894	Kincardine.
Chown, Albert P., M.D.	1890	Kingston.

Name.	Date of Graduation.	Address.
Chown, Henry H., M.D., (Dean of Medical Faculty, University of Manitoba) 1880; LL.D.	1903	Winnipeg, Man.
Chown, George Y., B.A., (Registrar, Queen's University)...	1884	Kingston.
Chown, Stanley T., B.A..	1889	Rentrew.
Chrysler, Francis H., B.A..	1866	Ottawa.
Clancey, Charles C., M.D..	1883	Port Huron, Mich.
3*b*Clark, Grace, M.A..	1904	Care American Collegiate for Girls, Sonyena, Turkey in Asia.
Clark, John K., B.A..	1895	North Portal, Sask.
Clark, Richard J., M.A..	1895	Nelson, B.C.
*Clark, Wm., (Professor, Trinity Univ.), M.A., D.C.L., D.D..	1902	Toronto.
Clark, W. C. D., M.D..	1885	Toronto.
Clark, William T., B.A..	1895	Morrissey, B.C.
Clarke, G. W., B.A., 1898; M.A.	1899	Grand Forks, B.C.
Clarke, H. J., B.A..	1905	Belleville.
Clarke, James, M.D..	1868	Bay City, Mich.
Clarke, John, M.D..	1872	(Deceased.)
Clarke, Joseph A., M.A..	1882	(Deceased.)
Clarke, John G., M.D..	1880	Meaford.
Clarke, J. T. A., B.A...	1899	Lander, Man.
Clark, L. J., B.A..	1898	Harbord St. C. I., Toronto.
Clarke, William, M.D..	1879	Ireland.
*Clarke, William C., B.A..	1855	(Deceased.)
Clark, Hon. Wm. Mortimer, (Lieutenant-Governor of Ontario) LL.D..	1903	Toronto.
Claxton, George, B.A..	1876	Gladstone, Man.
*Claxton, John A., B.A., 1888; B.D.	1896	Cochrane, Alta.
Claxton, William, M.D..	1874	Verona.
Cleary, J. R. S., B.A.....	1900	
Cleaver, J. C. C., M.A.	1879	Montserrat, Trinidad.
Cleaver, William F., M.D.	1879	Wigan, England.
Clerihew, Ernest M., M.D.	1890	New York.
Clinton, George, M.D.	1878	Belleville.
Cloney, S. Louise, M.A.	1897	St. Catharines.
Clothier, J. O., B.A..	1900	Hawkesbury H. S.
Cloutier, Felix, M.D..	1889	Crysler.
Cluness, Wm. R., B.A., '55; M.D.	1859	San Francisco, Cal.
Clyde, William, B.A., 1885; M.A.	1887	Petrolea.
Coad, Edith, B.A..	1902	Brockville.
Cochrane, James B., B.A..	1891	Kingston.

Name.	Date of Graduation.	Address.
Cochrane, Rt. Hon., 12th Earl of Dundonald, LL.D.	1904	
Code, J. H., M.D.	1905	Kingston.
Code, L. B., B.Sc.	1906	Winkinsburg, Pa.
Cody, Rev. H. J., (Professor, Wycliffe College) D.D.	1903	Toronto.
Cogan, Jeremiah R., M.D.	1861	(Deceased.)
Coleman, William F., M.D.	1863	163 State St., Chicago
Collier, W. H., B.A.	1898	Peterborough.
Collins, Cornelius, M.D.	1886	(Deceased.)
Collins, E. A., B.Sc.	1905	Copper Cliff.
9Collinson, J. C., M.A.	1898	Kingston.
Collison, G. W., M.D.	1898	Brinston's Corners.
Comer, Alexander T., M.D.	1864	New York.
Conboy, Daniel, B.A.	1888	
Condell, Wm. N., M.D.	1898	Brockville.
*7Conn, James R., M.A.	1896	Napanee.
Connell, F. M., B.Sc.	1906	Spencerville.
3Connell, James C., B.A., 1884; M.A., 1885; M.D., (Dean of Medical Faculty, Queen's University)	1888	Kingston.
Connell, Jessie C., (Binnie) B.A.	1892	Tweed.
Connell, J. V., M.D.	1902	Indian Head, Sask.
Connell, W. T., M.D., (Professor Queen's University)	1894	Kingston.
Conner, F. E., M.D.	1899	Macdonald, Man.
Connerty, J. Moore, M.D.	1886	Smith's Falls.
Connolly, A. K., M.D.	1904	Kingston.
Connolly, E. W., M.D.	1900	Cranbrooke, B.C.
3Connolly, Henry A., M.A.	1885	Lachute, Que.
Connor, Grace L., M.A.	1905	Kingston.
Consitt, E. C., M.D.	1905	Perth.
Cook, Gertrude A., B.A.	1903	Dunnville.
*Cook, John, LL.D.	1880	(Deceased.)
Cooke, John A., B.A., 1884; M.A.	1905	Morrisburg.
Cooke, William H., M.D.	1888	Minneapolis, Minn.
Coon, Darius A., M.D.	1890	Elgin.
8Coon, Harry J., M.A.	1906	Belleville.
Cooper, E. G., M.D.	1899	(Deceased.)
Copeland, George T., B.A.	1889	Cornwall.
Corbett, George H., M.D.	1856	(Deceased.)
Corbett, Henry T., M.D.	1868	(Deceased.)
Corkill, Edward J., B.A.	1886	Harriston H. S.
Corkill, E. T., B. Sc., 1904; M.E.	1905	Bureau of Mines, Toronto.
Corliss, Margaret A., M.D.	1885	Australia.
*Cormack, James, B.A.	1872	Ottawa.
Cormack, John H., M.D.	1893	St. Thomas.

Name.	Date of Graduation.	Address.
Cornell, Albert P., M.D.	1882	(Deceased.)
Cornell, Stanley S., M.D.	1886	Brockville.
*Cornett, William H., B.A.	1887	
Corrigan, D. J., M.D.	1898	West Webster, N. Y.
Corry, Robert, M.D.	1861	(Deceased.)
*Cosgrove, Thomas A., B.A.	1887	
Costello, T. J., M.D.	1904	Calgary.
Couch, S., B.A.	1905	Melita, Man.
Coughlin, Richard, M.D.	1881	Hastings.
Countryman, John E., M.D.	1893	Drayton, N. Dak.
*Coussirat, Daniel, B.D., D.D., (Prof., McGill University)	1893	Montreal.
Coutlee, Hillier Noel, M.D.	1882	Sharbot Lake.
Cowan, H., B.D.	1905	
Cowan, S. G., B.A.	1901	Peterboro.
14Cowley, R. H., B.A., 1889; M.A	1893	Ottawa.
Cox, John, (Professor, McGill University) LL.D.	1903	Montreal.
Coy, William F., M.D.	1886	Vancouver.
Craft, Robert A., M.D.	1895	
Craig, Hugh A., M.D.	1878	(Deceased.)
Craig, H. B. R., B.Sc.	1903	Fort William branch of the G.T.P. Ry.
Craig, James J., B.A.	1874	Mount Forest.
Craig, J. D., B.A., 1897; B.Sc.	1900	Juneau, Alaska.
*Craig, Robt. J., B.A., 1871; M.A.	1874	Kingston.
Craig, William, B.A.	1858	(Deceased.)
Craine, Agnes D., M.D.	1888	Smith's Falls.
*Cram, W. H., B.A., 1895; B.D.	1900	Cobden.
Cram, W. S., B.A.	1906	Carleton Place, Ont.
Cranston, James G., M.D.	1860	Arnprior.
Cranston, James J., M.D.	1895	Arnprior.
Crawford, Joseph, M.D.	1857	(Deceased.)
12Crawford, Robert, B.A.	1869	Kingston.
*Crawford, W. F., B.A., 1900; B.D.	1903	Chesterville.
Creeggan, Jno. G., B.A., 1878; M.D.	1886	Delta.
Creighton, J. E. (Sage Professor, Cornell University), LLD.	1903	Ithaca, N.Y.
Crews, J. W., M.D.	1902	Pittsford.
Croft, L. V., B.A.	1899	Middleville.
Croskery, Robert A., B.A.	1896	Napanee.
Croskery, E. A., M.D.	1897	Trelona, Wyo.
Crozier, J. A., B.A.	1897	
Crummy, Eber. Rev., D.D.	1905	Toronto.
Cryan, Georgina (Fraser), B.A.	1898	Uxbridge.
Cryan, John, M.D.	1883	Demorestville.
Cryan, J. H., M.D.	1903	Demorestville.

Name.	Date of Graduation.	Address.
*Cumberland, Jas., B.A., 1877; M.A....	1880	Stella.
Cumberland, Thomas, M.D.. ...	1884	(Deceased.)
12Cumberland, Judge Thos. D., B.A..	1875	Brandon, Man.
Cumming, A. L., B.Sc..	1905	Topog. Survey Dept., Ottawa.
Cumming, Lucy, B.A..	1903	Ottawa.
Cummings, J. G., B.A..	1898	
Cunningham, Arthur B., B.A.. .	1891	Kingston.
Cunningham, Dav., B.A., 1887; M.D..	1890	(Deceased.)
Cunningham, Henry C., M.D....	1885	Carman, Man.
Curle, William, B.A., 1889; M.A.	1890	Ottawa.
*Curran, Wm. B., B.A., 1859; M.A..	1870	Colwich Rectory, Nottingham, Eng.
*Currie, Arch., B.A., 1858; M.A.	1861	Deseronto, Ont.
*Currie, John, D.D., (Professor, Theological Hall)..	1885	Halifax.
Currie, P. W., B.Sc..	1901	Dept. of Interior, Ottawa.
Curry, James W., B.A..	1878	Toronto.
Curtin, C. J., B.A..	1905	Brockville.
Curtin, T. V., M.D..	1901	Brockville.
3aDadson, Helena, B.A..	1905	Blenheim, Ont.
Dalton, G. F., B.A., 1898; M.D..	1902	Kingston.
*Daly, Charles H., B.A..	1890	Lyn.
Daly, Wilberforce, B.A..	1880	
Dame, Alexander A., M.D.. ...	1886	
Dandeno, J. B., B.A..	1895	Agricultural Coll P.S., Mich.
*D'Argent, William E., B.A....	1884	389 South Hohman St., Hammond, Ind.
Dark, T. A., M.A..	1904	Wicklow.
Darragh, Robert J., M.D..	1886	
David, Alfred, M.D..	1873	
David, William C., M.D..	1889	West Bay City, Mich.
Davies, Ransom A., M.D..	1876	Easton's Corners.
Davis, Bidwell N., B.A..	1881	Toronto.
Davis, John J., M.D..	1894	New York, N.Y.
Davis, Lewis T., M.D..	1883	Nanaimo, B.C.
Davis, Robert H., M.D..	1858	York, Grand River.
Davis, Sydney N., M.D..	1891	York.
Davis, William H., M.A..	1893	
Davis, J. S., B.A..	1898	Toronto.
Davis, N. A., M.D..	1898	Fallowfield.
Davidson, Myers, M.D....	1864	(Deceased.)
*Dawson, Æneas McD., LL.D..	1886	(Deceased.)

Name.	Date of Graduation.	Address.
*Dawson, Alexander, B.A.	1859	Parkdale.
Dawson, George M., LL.D.	1890	(Deceased.)
Dawson, Henry G., M.D.	1885	Cape Vincent, N.Y.
Dawson, Annie L., B.A.	1898	Ompah.
Day, Alfred E., B.A., 1895; M.A.	1896	Walkerton H. S.
Day, Barnabas W., M.D.	1862	San Diego, Cal.
Day, H. E., M.D.	1902	Kingston.
Day, Henry W., M.D.	1859	(Deceased.)
Day, Jonathan, M.D.	1877	(Deceased.)
Day, Lewis E., M.D.	1880	(Deceased.)
Day, Walter D. P. W., M.D.	1871	(Deceased.)
Day, Isaac, B.A.	1898	Orillia.
Deacon, M. Alberta, B.A.	1900	Brockville.
Dean, Marshall B., B.A.	1895	
Deans, George, M.D.	1865	(Deceased.)
Deans, William C., M.D.	1861	(Deceased.)
de la Matter, Cornelia, B.A.	1900	Smithville H. S.
DeLong, E. W., M.D.	1904	Cayley, Alta.
Demorest, Clara, M.D.	1890	Calgary, Alta.
Dempster, J. H., B.A.	1899	
Denaut, Henry J., M.D.	1892	South Bend, Ind.
Denike, George H., M.D.	1882	
Dennis, E. M., B.Sc.	1904	Ottawa.
Dennistoun, Robert M., B.A.	1885	Peterboro.
Densmore, L. D., M.D.	1901	Maitland, N. S.
Denyes, James M., B.A.	1895	Whitby.
Detlor, W. T., B.A.	1899	Napanee.
Devlin, J. L., M.D.	1899	
*Dewar, Donald L., B.A.	1886	(Deceased.)
Deynard, Adelbert B., M.D.	1875	New York.
Dickey, J. S., M.D.	1903	North Williamsburg.
Dickson, Andrew F., M.D.	1890	
Dickson, Annie E., M.D.	1886	(Deceased.)
Dickson, Charles R., M.D.	1880	Toronto.
9Dickson, C. W., M.A.	1900	Kingston.
Dickson, Ethel A., (Nickle) B.A.	1898	Kingston.
Dickson, John R., M.D.	1863	(Deceased.)
Dickson, John R., M.D.	1868	(Deceased.)
Dickson, M. Evelyn, B.A.	1902	Kingston.
Dingman, William E., M.D.	1875	Listowel.
Dingwall, Annie C., B.A.	1903	Cornwall.
Dingwall, J., B.A.	1903	Cornwall.
Dingwall, James, B.A.	1861	Cornwall.
Dingwall, M., B.A.	1903	Cornwall.
Dixon, Andrew F., M.D.	1890	
Dixon, John W., M.D.	1890	Burlington, Iowa.
Dixon, Mortimer L., M.D.	1886	Frankville.
Dobbs, G. G., B.Sc.	1906	Kingston.
5Dolan, G., B.A.	1899	Berlin H. S.

Name.	Date of Graduation.	Address.
Dolan, John H., B.A.	1897	Picton.
Donald, Helen, B.A.	1906	Belleville.
*Donald, William, D.D	1861	(Deceased.)
Donald, William, B.A.	1873	Pilot Mound, Man.
*5,-7Donnell, J. A., M.A.	1902	Kingston.
Donnelly, J., jr., M.E.	1898	Kingston.
Donovan, Edward, M.D.	1886	Langdon, Dak.
Donovan, Gertrude	1900	Kaslo, B.C.
Donovan, Mary (Melville), B.A.	1892	Bakersville, Vt.
Donovan, Patrick C., M.D.	1879	Neche, N. D.
Douglas, Harry E., M.D.	1892	Muncie, Ind.
Douglas, H. E. N., M.D.	1897	Kingston, Jamaica.
Douglas, James, B.A.	1858	99 John St., N.Y.
Douglas, Robt., B.A., 1851; M.D.	1855	(Deceased.)
Dow, John Ball, B.A.	1875	Whitby.
Down, G. W., B.A.	1905	Erin.
Downing, James J., B.A.	1881	(Deceased.)
Downing, Jos. J., B.A., '92; M.D.	1896	Chesley.
Downing, William H., M.D.	1888	(Deceased.)
Dowsley, David H., M.D.	1875	Ottawa.
Dowsley, George C., M.D.	1875	Gore Bay.
Dowsley, W. C., M.A.	1898	Athens H. S.
Doyle, J. D., M.D.	1898	Brooklyn, N. Y.
Drennan, Ethel, B.A.	1900	
Drennan, Jennie G., M.D.	1895	St. Thomas.
Driscoll, A. C., M.D.	1904	Trenton.
Drummond, Andrew T., B.A., 1860; LL.B., 1863; LL.D.	1896	Toronto.
*Drummond, Daniel R., B.A., '89; M.A., 1890; B.D.	1892	Hamilton.
Drummond, Francis A., B.A.	1877	Winnipeg.
Drummond, Peter, M.D.	1889	Grant, Mich.
*Drummond, William J., B.A.	1885	Nanking, China.
Drummond, S. J., M.D.	1897	Casnovia, Mich.
*Duclos, John E., B.A.	1884	Valleyfield.
Dudley, W. H., M.D.	1905	Pembroke.
*Duff, A., D.D.	1903	Bradford, Eng.
Duff, John, M.D.	1889	(Deceased.)
Duff, H. Ramsay, M.D.	1884	Kingston.
4Duff, J., M.A.	1899	Rosenroll, Alberta.
Duff, K. Isobel, M.A. (Mrs David Andrews)	1904	Trenton.
Dugdale, John J., M.D.	1867	(Deceased.)
Dumble, Thomas H., M.D.	1877	(Deceased.)
Dumble, William C., M.D.	1877	Toronto.
*Dumoulin, Bishop John P., M.A.	1870	Hamilton.
Dunbar, Neil, B.A.	1854	(Deceased.)
Dunbar, Samuel, M.D.	1855	(Deceased.)
1, 18Duncan, T. S., M.A.	1904	Westport.

Name.	Date of Graduation.	Address.
Dunkley, A. W., M.A.	1899	Orangeville H. S.
Dunkley, W. G., B.A.	1902	Picton.
Dunlop, H., B.A.	1905	Kingston.
Dunlop, Harry, B.A.	1906	Kingston.
Dunlop, James D., M.D.	1887	Alpena, Mich.
Dunlop, J. E. S., B.A.	1904	Ventnor.
*15Dunlop, John G., B.A., 1887; M.A.	1891	Kingston.
Dunlop, Neil, M.D.	1861	Sydenham.
Dunn, Andrew T., M.D.	1864	North Augusta.
Dunning, J. C., M.D.	1897	Chicago, Ill.
Dupuis, Charles B., B.A.	1887	(Deceased.)
Dupuis, Eugene L., M.D.	1890	Kingston.
8Dupuis, James M., M.D.	1881	(Deceased.)
Dupuis, Nathan F.,(Dean, Faculty of Practical Science, Queen's University), B.A., 1866; M.A.	1868	Kingston.
Dupuis, Thomas R., M.D.	1860	(Deceased.)
Durie, C. L., B.A.	1899	Lacombe, Alta.
Dwyer, E., B.Sc.	1902	Kingston.
Dwyer, J. G., M.A.	1902	Kingston.
Dwyre, Andrew W., M.D.	1885	Perth.
*Dyckman, Henry M., B.A.	1887	Pottstown, Penn.
Dyde, Chas. B., B.A., 1894; M.D.	1897	Greeley, Col.
Dyde, Geo. E., B.A., 1889; M.A.	1897	(Deceased.)
1, 4Dyde, S. W., (Professor, Queen's University), B.A., 1883; M.A., 1884; D.Sc.	1887	Kingston.
*Eakin, Joseph F., B.A.	1866	(Deceased.)
Earl, William M., M.D.	1890	Chrysler.
Eastman, F. S., B.A.	1903	Smithville.
*6Easton, William H., M.A.	1893	
Echlin, Edm. J. B., B.A., 1899; M.D.	1891	Ottawa.
*Edmison, Henry, B.A., '63; M.A.	1866	Rothsay, Ont.
Edmison, G. A., B.A.	1898	Russell, Man.
*Edmison, J. H., B.A.	1898	Cheltenham.
Edwards, C. B., B.A.	1900	London, Ont.
Edwards, Cephas H., B.A.	1896	Keene.
Edwards, J. W., B.A., 1900; M.D.	1900	Cataraqui.
Elder, Hosie, M.A.	1905	Toronto.
Eldon, R. H., B.A.	1901	Harbord St. C. I., Toronto.
Elliott, Arthur R., M.D.	1889	Chicago.
Elliott, Edwin, B.A.	1886	Kingston.
Elliott, Gilbert John, Earl of Minto, G.C.M.G., LL.D.	1899	
Elliott, H. H., M.D.	1898	Seeley's Bay.

Name.	Date of Graduation.	Address.
*Elliott, Jas., (Professor Wesley Theological College, Montreal) Ph.D.	1904	Wesley Coll., Winnipeg, Man.
Elliott, John, B.A.	1889	Leamington.
Elliott, Thomas A., B.A.	1879	
Elliott, Walter H., B.A.	1894	Toronto.
Ellis, F. J., M.D.	1903	Ellisville.
Ellis, G. E., B.A.	1901	Edmonton, Alta.
Elmer, William W., M.D.	1858	Spokane Falls, Wash.
Elwell, W. D., M.D.	1863	(Deceased.)
Embury, Alex. T., M.D.	1896	Ottawa.
Embury, Elizabeth, MD.	1888	Ottawa.
Emery, George F., M.D.	1889	Ottawa.
Emery, Horatio J., M.D.	1884	
Empey, Charles T., M.D.	1880	Cross Hills, Leeds, Eng.
Empey, William A., M.D.	1881	Spencerville.
Erly, Francis W. J., M.D.	1868	(Deceased.)
Errett, Alfred J., M.D.	1887	(Deceased.)
Errett, Bessie D., B.A.	1904	Chatham.
Eshoo, S. O., M.D.	1902	Oroomiah, Persia.
*Etherington, Edward J., B.A.	1891	Hamilton.
Etherington, F., M.D.	1902	Portsmouth.
Evans, Henry, M.D.	1858	(Deceased.)
Evans, Henry A., M.D.	1878	(Deceased.)
*Evans, Joseph, B.A., 1855; M.A.	1857	
Everts, H. A., B.A.	1906	Lyn.
Ewart, W. M., B.A.	1898	Smith's Falls.
Ewing, Florence M., B.A.	1903	Cataraqui.
11Ewing, William C., M.A.	1895	O. I., Ottawa.
Fadden, W. S., M.D.	1898	Aultsville.
Fahey, E. W., M.D.	1901	Kingston.
Fairbairn, Archibald C., M.D.	1871	Minneapolis, Minn.
Fairfield, Charles A. D., B.A.	1887	St. Catharines.
Fairlie, J., B.A., 1905; M.A.	1906	Kingston.
Fairlie, T. U., B.Sc.	1905	Brockville.
Fairlie, M. F., B.Sc.	1902	Bingham, Utah.
Falconer, John P., B.A.	1889	Delhi, Ont.
Falkner, A. D., M.D.	1904	
Falkner, J., B.A.	1903	Williamstown.
Farley, Frank J., M.D.	1894	Trenton.
Farnham, M. M., B.A.	1906	Copper Cliff, Ont.
Farrell, Alexander G., B.A.	1885	Smith's Falls.
Farrell, James M., B.A.	1889	Kingston.
Farrell, J. T., M.D.	1861	(Deceased.)
Farrell, Thomas H., B.A., 1889; M.A., 1890; M.D.	1895	Utica, N. Y.
Farquarson, R. A., B.A.	1898	Kincardine.

Name.	Date of Graduation.	Address.
Fee, Samuel H., M.D.	1862	(Deceased.)
*Fee, S. M., B.A.	1899	Newdale, Man.
*6Fee, W. M., M.A.	1899	Alexander, Man.
Feek, Robert G., B.A.	1882	
*Feir, Harry, B.A.	1895	Saltcoats, Sask.
11Fenwick, Arthur M., M.A.	1890	Regina, Sask.
Fenwick, Kenneth N., B.A., 1871; M.A., 1874; M.D.	1874	(Deceased.)
Fenwick, Thomas M., M.D.	1864	(Deceased.)
Ferguson, Allen G., M.D.	1887	Chicago.
Ferguson, Archibald, B.A.	1883	Winnipeg.
Ferguson, A. A., M.D.	1904	Edmonton, Alta.
Ferguson, C. A., B.A.	1897	Admaston.
Ferguson, Charles F., M.D.	1859	Kemptville.
Ferguson, E. A., M.D.	1904	Kingston.
Ferguson, Edward G., M.D.	1863	Macon, Georgia.
Ferguson, George A., B.A.	1894	Owen Sound.
*Ferguson, George D., (Professor, Queen's Univ.), B.A.	1851	Kingston.
Ferguson, Jacob Y, M.D.	1905	
Ferguson, James F., B.A.	1862	Kingston.
*Ferguson, J., B.A.	1904	Fergus.
*Ferguson, John, B.A., 1876; M.A., 1878; B.D.	1879	(Deceased.)
Ferguson, J. Y., B.A., 1902; M.D.	1905	Tamsui, Formosa.
Ferguson, M., B.Sc.	1904	Kingston.
5Ferguson, Robert, B.A.	1882	London.
Ferguson, Robert B., M.D.	1863	(Deceased.)
Ferguson, Thomas B., B.A.	1863	
Ferguson, T. R., M.A.	1904	Wiarton.
Ferguson, W., B.A.	1906	Snow Road, Ont.
Ferguson, William B., B.A.	1861	(Deceased.)
*Ferguson, T. J. S., B.A.	1898	Didsbury, Alta.
Fernow, B. E., LL.D.	1903	Ithaca, N.Y.
Ferrier, G. C., M.D.	1900	Kingston.
Fetterly, H. B., B.A.	1904	Winchester.
Fielding, Hon. Wm. Stevens, (Minister of Finance, Ottawa) LL.D.	1903	Ottawa.
File, Albert J., M.D.	1869	Ameliasburg.
8Findlay, John, B.A., 1887; M.A.	1888	Los Angeles, Cal.
2Findlay, William A., B.A.	1888	
Finlayson, D. K., B.A.	1905	Grand River, Richmond Co., N.S.
Finlayson, M. D., B.Sc.	1903	Transconinental Ry., Grand Falls, N.B.
Finlayson, R. A., B.A.	1898	Odessa, Wash.
Finn, J. P., B.A.	1905	Kingston.
Finnie, H. V., B.Sc.	1906	Peterboro.

Name.	Date of Graduation.	Address.
Firth, W. P., B.A., 1900; M.A..	1901	Pickering.
Fisher, Albert J, M.D..	1887	Brigden.
Fitchett, H. H., B.A., LL.D....	1899	Melbourne, Aus.
Fitzgerald, Eliza S., B.A., 1884; M.A..	1899	Niagara Falls South.
Fitzgerald, Gerald D., M.D.. ...	1894	(Deceased.)
*Fitzpatrick, Alfred, B.A..	1889	
Flath, Emma S., B.A..	1902	Alexandria H. S.
Fleck, James, D.D....	1905	Montreal, Que.
Fleming, A. G., B.A..	1904	
Fleming, Hugh P., M.D....	1895	Ottawa.
Fleming, Maud E., B.A., 1903; M.A.	1906	Craigleith.
*Fleming, David, B.A...	1887	Strathcona, Alta.
Fleming, W. S., B.A..	1905	Franktown.
*Fletcher, Rev. D. H., D.D... ..	1903	Hamilton.
Fletcher, Jas., F.R.S.C., LL.D...	1896	Ottawa.
Fletcher, John, (Professor, Toronto Univ.) M.A., LL.D...	1896	Toronto.
11Fletcher, W. H., M.A..	1902	Toronto Junct. C. I.
Fletcher, William P., B.A..	1896	Drayton.
Foik, H. J., B.A..	1905	Portage La Prairie.
Foley, Declan E., M.D..	1886	Westport.
Foley, Ignatius J., M.D..	1891	(Deceased.)
Foley, T. B., M.D..	1903	
10Folger, Howard S., B.A..	1887	Kingston.
Folger, Matthew H., B.A..	1885	
14Ford, A. B., M.A., 1894; M.D.	1897	Oshawa.
Ford, C. Y., M.D....	1900	
Ford, Henry B., M.D..	1885	Bouck's Hill.
Ford, Herbert D., M.D..	1874	
*Forest, John, D.D., (Principal Dalhousie College)..	1863	Halifax.
Forfar, Lena M., B.A..	1903	Ellesmere.
Forin, Alexander, M.D..	1894	Edmonton, Alta.
Forrester, Edgar, B.A., '82; M.D.	1884	Brockville.
Fortescue, Charles, B.Sc..	1898	Kingston.
Foster, Robert J., M.D..	1859	(Deceased.)
*Fotheringham, R. H., B.A.. ..	1903	Rothsay.
Fowkes, John T., M.D..	1891	Lafrageville, N.Y.
Fowlds, Mary T., B.A..	1896	Hastings.
Fowler, Annie L., B.A..	1884	Kingston.
Fowler, Fife, M.D., (Dean, Medical Faculty, Queen's Univ.).	1863	(Deceased.)
5Fowler, Henry C., B.A..	1881	Toronto.
Fowler, Jennie (Kilborn), B.A.	1890	(Deceased.)
*Fowler, William J., B.D..	1888	Little River, N.S.
Fowlie, A. J., B.A..	1901	Erin.
Fox, Catherine H. C., B.A.... ..	1902	Mountain Grove.

Name.	Date of Graduation.	Address.
Fox, Charles B., M.A.	1894	Supt. Pittsburg Reduction Co., St. Louis, Ill.
Fox, Edward C., M.D.	1864	
Foxton, Edward, M.D.	1884	Ottawa.
Foxton, Joseph, B.A.	1886	Kingston.
Fraleck, Judge Edison B., B.A.	1863	Belleville.
Fraleck, E. L., B.A.	1897	Belleville.
Franklin, Benjamin W., M.D.	1856	
Fraser, Annie E., B.A.	1897	Victoria, B.C.
Fraser, Anson S., M.D.	1869	Sarnia.
Fraser, Alexander G., B.A.	1852	(Deceased.)
Fraser, Archibald, B.A.	1848	(Deceased.)
*Fraser, Donald, B.A., '64; M.A.	1866	(Deceased.)
Fraser, George, L.B., B.A.	1870	Ottawa.
Fraser, Helen F., B.A.	1901	Hamilton.
*Fraser, James, B.A.	1865	Cushing, Que.
*Fraser, Jas. R., B.A., '93; M.A.	1895	Uxbridge.
Fraser, John, M.A., LL.D.	1887	Maitland, Aus.
Fraser, John B., M.D.	1888	Toronto.
*Fraser, John F., B.A.	1869	
Fraser, John M., B.A., 1857; M.D	1861	(Deceased.)
*Fraser, Joshua, B.A.	1858	(Deceased.)
Fraser, Robert N., M.D.	1884	Thamesville.
Fraser, Wilhelmine G., M.D.	1890	India.
*Fraser, William, D.D.	1878	(Deceased.)
Fraser, William A., B.A.	1898	Marion Bridge, N.S.
*Fraser, Thurlow, B.A., '98; B.D.	1898	Portage la Prairie.
Frechette, Louis H., LL.D.	1881	Montreal.
Freeland, Anthony, M.D.	1889	Ottawa.
Freeman, Albert E., M.D.	1887	Inverary.
Frizell, J. R., B.A.	1897	Whitewood, Assa.
Froats, James, B.A.	1906	Finch, Ont.
Froats, W. C., M.A.	1904	Morrisburg.
Froiland, Herb. M., B.A., 1882; M.D.	1883	(Deceased.)
Fuller, Wm. H., B.A., 1867; M.A.	1873	(Deceased.)
Fulton, Cyril, M.D.	1894	Lyons, N.Y.
Funnell, Ada A., M.D.	1887	(Deceased.)
Funnell, Rozelle V., M.D.	1890	Hamilton.
11Furlong, Thomas H., M.A.	1897	Simcoe.
Gage, H. E., M.D.	1902	
Gage, J. E., M.D.	1898	Riverside, Cal.
Gage, R. G., B.Sc.	1905	Pittsburg, Pa.
Galbraith, J., (Principal, School of Practical Science) LL.D.	1903	Toronto.
Galbraith, John E., M.D.	1880	(Deceased.)
Galbraith, R. B.A.	1897	Mt. Forest.
Galbraith, T. M., B.A.	1906	Thornbury, Ont.

Name.	Date of Graduation.	Address.
Gallaher, Morton, M.D.	1887	Bay City, Mich.
*Gallaher, John, B.A.	1878	(Deceased.)
Galligan, Thomas D., M.D.	1886	Eganville.
Gallivan, J. V., M.D.	1904	Kingston.
4, 5*Gandier, Alf., B.A., '84; M.A	1887	Toronto.
Gandier, Augustin, M.D.	1890	Sherbrooke, Que.
*Gandier, Daniel McG., B.A.	1894	San Bernardino, Cal.
Gandier, J. C., B.A.	1901	Newburgh.
Gardiner, R. J., M.D.	1891	Seeley's Bay.
Gardiner, Sydney H., B.A., 1897; M.D., 1889; M.A.	1890	Brooklyn, N.Y.
Garrett, Richard W., M.D., (Professor, Queen's University	1882	Kingston.
Gaudet, E. A., M.D.	1905	
Gavin, Frederick P., B.A.	1896	Windsor.
Geddes, Robert W., B.A.	1896	Deseronto.
Geddes, W. J., M.D.	1905	
*Geddie, John, D.D.	1866	(Deceased.)
*Geikie, A. Constable, LL.D.	1884	(Deceased.)
*Geikie, J. Cunningham, D.D.	1871	(Deceased.)
Genge, T. S., M.D.	1901	Holleford.
Genge, William W., M.D.	1891	
Gerin, John, M.D.	1872	Auburn, N.Y.
Gibson, Albert E., M.D.	1887	Oakland, Iowa.
Gibson, Ethel B., B.A.	1905	Kingston.
Gibson, A. S., B.A.	1904	Kingston.
Gibson, Andrew M., M.D.	1874	(Deceased.)
Gibson, H. A., M.D.	1903	Calgary, Alta.
Gibson, J. Copeland, M.A., 1892; M.D.	1896	Hamilton.
Gibson, James C., M.D.	1892	New Haven, Mich.
Gibson, James F., M.D.	1891	Kingston.
Gibson, James D., M.D.	1893	
Gibson, James L, M.D.	1893	
Gibson, John J., M.D.	1893	Alexandria, Ind.
Gibson, Wm., M.D.	1904	Emerald.
Gibson, William J., B.A., 1874; M.D., 1881; M.A.	1882	Belleville.
Gildersleeve, James P., LL.B.	1863	Kingston.
Giles, George C., M.D.	1893	Marne, Iowa.
Giles, John G., M.D.	1860	(Deceased.)
Gilfillan, James, B.A.	1896	Bowmanville.
*Gill, Henry, D.D.	1865	England.
Gillen, Erastus, M.D.	1894	(Deceased.)
Gillespie, Henry M., M.D.	1896	Elma, Iowa, U.S.
Gillespie, J. J., M.D.	1904	Morrisburg.
Gillies, D. A., B.A.	1905	Carleton Place.
Gillies, George, B.A.	1874	Toronto.
Gillies, Neil, M.D.	1871	Brandon, Man.

Name.	Date of Graduation.	Address.
Gillies, William F., B.A.	1891	(Deceased.)
Gillis, Angus B., M.D.	1888	Salem, Ore.
Girvin, A. W., M.D.	1905	Stella.
12Givens, David A., B.A.	1878	Kingston.
Givens, Hannah A., (Marshall) B.A.	1887	(Deceased.)
Givens, William R., B.A.	1888	
*Glassford, Thomas S., B.A.	1875	Alberni, B.C.
Gleeson, James H., M.D.	1864	(Deceased.)
Gleeson, J. V., B.Sc.	1904	Kingston.
*Glover, Thomas J., B.A.	1894	Kingston.
4Gober, Mai, (Agnew) B.A., 1898; M.A.	1899	
Goodchild, J. F., M.D.	1899	Toronto.
Goodfellow, J., B.A.	1900	Parham.
Goodfellow, J. R., M.D.	1904	
Goodwill, J. E. L., B.A.	1903	Toronto.
*Goodwill, T. W., B.A.	1898	Marmora.
Goodwill, V. L., M.D.	1899	Charlottetown, P.E.I.
Goold, Arthur J., B.A.	1883	Waterford.
Goldschmidt, Victor, (Professor of Mineralogy, Heidelberg University) LL.D.	1903	Heidelberg, Germany.
Gordanier, W. N., B.Sc.	1903	Napanee.
*Gordon, James, B.A., 1851; M.A.	1854	(Deceased.)
Gordon, John G., B.A.	1861	
Gordon, Annie E., B.A.	1897	Ottawa.
*Gordon, D. L., B.A.	1897	Cobden, B.C.
4Gordon, Wilhelmina, M.A.	1905	Bryn Mawr.
*Gould, S. H., B.A., M.D.	1897	Nablus, Palestine.
8Gould, W. H., M.A.	1900	Sovereign Life Assurance Co., Toronto.
*Gow, Robert, B.A.	1883	Beaverdale, Man.
3*Govan, Arpad, B.A.	1883	Williamstown.
Gowan, James R., C.M.G., LL.D.	1884	Barrie.
*Graham, Archibald, B.A.	1892	Parkhill.
Graham, C. W., B.A.	1905	Kingston.
Graham, D., M.D.	1902	
Graham, Elsie K., (Murray) B.A.	1902	Londonderry, N.S.
Graham, Hedley C. W., M.D.	1889	Rochester, N.Y.
Graham, J. A., M.D.	1904	Montreal.
Graham, P. E., B.A.	1898	Prince Albert, Sask.
Graham, R. R., B.A.	1902	Athens H. S.
Graham, S. N., B.Sc.	1900	Guanajuato, Mexico.
Grange, Thomas A., B.A.	1895	(Deceased.)
Grange, William A., B.A.	1898	Napanee.
Grant, A. F., M.D.	1899	Peterboro.
Grant, Ethel I., B.A.	1903	Martintown.
Grant, H. M., B.A., M.D.	1889	Auckland, N. Zealand.

Name	Date of Graduation.	Address.
*Grant, Hugh R., B.A.	1883	New Glasgow, N.S.
*Grant, James A., B.A.	1878	Richmond Hill.
Grant, J. R., B.Sc.	1905	Chesley.
*Grant, Kenneth A., M.A., D.D.	1893	San Fernando, W.I.
Grant, Norman M., B.A., 1886; M.D.	1889	Auckland, New Zealand.
*Grant, Peter, D.D.	1868	(Deceased.)
*Grant, William, D.D.	1883	(Deceased.)
1, 2Grant, William L., M.A.	1894	Royal Colonial Institute, Northumberland, Ave., London, Eng.
Grasse, Sydney D., M.D.	1864	(Deceased.)
Gray, Henrietta A., B.A.	1899	Kingston.
*Gray, John, D.D., B.A., 1874; M.A.	1876	Orillia.
*Gray, S. Harper, B.A.	1894	Dundas.
Gray, T. J., M.D.	1904	Kingston.
Gray, William A., M.D.	1890	Pembroke.
Green, Samuel D., M.D.	1891	
Greenhill, Eva M., B.A. (Young)	1899	Prescott.
Grenfell, Caroline P., B.A.	1899	Arnprior.
Grenfell, M. Elizabeth, B.A.	1899	Naksup, B.C.
Grey, Earl, Gov.-Gen., LL.D.	1905	Ottawa.
Grey, J. M., B.A.	1903	Kingston.
4Grey, S. L. H., M.A.	1903	London & Lanc. Life, Regina, Sask.
Griffin, A. D., B.A.	1901	Woodstock.
Griffin, E. Scott, B.A.	1884	
Griffith, Agnes J., M.A.	1896	Quebec.
Griffith, Edna B., B.A.	1896	Sydenham.
Grimshaw, M. E., M.D.	1905	Wolfe Island.
Grimshaw, W. S., M.D.	1901	Kingston.
Grove, W. G., B.A.	1905	Ringwood.
Grover, G. A., B.Sc.	1902	Dept. of Interior, Ottawa.
28Guess, George A., M.A.	1894	
Guess, Harry A., M.A.	1895	Cananea. Sonora, Mexico.
7Guggisberg, W. W., B.A.	1904	Hamilton.
Gunsolus, Kenneth, M.D.	1871	Detroit, Mich.
28Guy, R. D., M.A.	1905	Camden East.
*Guy, W. A., B.A., 1897; B.D.	1901	MacDonald's Corners.
Hackett, Joseph, M.D.	1858	(Deceased.)
Hadden, A. T., B.A.	1905	
Hagar, A. E., B.A.	1902	
Hagar, Frederick C., M.D.	1895	Smith's Falls.

Name.	Date of Graduation.	Address.
Haig, Andrew, B.A., 1888; M.A., 1889; M.D.	1891	Kingston.
Hainer, F. L., B.A.	1904	Baleville, N. J.
Hales, James, B.A., 1888; LL.B.	1893	Toronto.
6Hall, J. R., B.A., 1897; M.A.	1898	Sarnia.
Hall, T. F., B.A.	1904	Cobourg.
Hall, W. A., B.A., 1898; M.D.	1900	Walkerton.
Halladay, R. W., B.A., 1902; M.D.	1905	Elgin.
Hallett, W. J., B. A.	1906	Barrie.
Halliday, Henry, B.A.	1884	(Deceased.)
Hamilton, Andrew, B.A.	1855	(Deceased.)
Hamilton, David, M.D.	1862	Batavia, N. Y.
5, 21Hamilton, Charles F., M.A.	1890	Ottawa.
Hamilton, David J., B.A.	1895	(Deceased.)
Hamilton, Jno. A., B.A., '77; M.D	1886	(Deceased.)
Hamilton, J. C., B.A.	1897	
Hamilton, W. J., B.A.	1906	Picton.
Hamm, B. N., B.A.	1899	Kamloops, B.C.
Hanley, A. T., B.A., M.A.	1899	
Hanley, G. J., M.D.	1902	
Hanley, J. H., M.D.	1900	Kingston.
Hanley, Robert, M.D.	1898	Kingston.
Hanna, James E., M.D.	1886	Ottawa.
Harcourt, Hon. Richard (Minister of Education), LL.D.	1903	Toronto.
Harding, William E., M.D.	1888	Brockville.
Hare, William G., M.D.	1892	Bay City, Mich.
Harkness, Fred B., M.D.	1889	North Gower.
36, 4Harkness, Mary Dell, M.A.	1906	Metcalfe.
Harkness, Thomas F., B.A.	1862	(Deceased.)
Harpell, J. J., B.A.	1902	Toronto.
Harper, A. M., B.A.	1900	Vancouver, B.C.
Harper, John M., B.A.	1882	Quebec.
Harrington, A. W., M.D.	1881	(Deceased.)
Harris, J. Alton, M.D.	1899	
Harrison, Edgar D., M.D.	1891	Madoc.
Harrison, F. W., B.A.	1906	Richmond Hill.
Harrison, T. S., M.D.	1865	Selkirk, Man.
Hart, John F., M.D.	1887	Athens.
Hart, Michael W., M.D.	1887	Prescott.
*Hart, Thomas (Professor, Manitoba College), B.A., 1860; M.A., 1868; B.D., 1880; D.D.	1902	Winnipeg.
Harten, Geo. H., B.A.	1902	
*Hartwell, George E., B.A.	1888	Chentu, China.
Harty, J. J., M.D.	1897	Kingston.
Harvie, William D., M.D.	1889	
Harvey, Albert E., M.D.	1869	(Deceased.)
Harvey, Catherine, B.A. (Cowley)	1897	Ottawa.

Name.	Date of Graduation.	Address.
Harvey, J. F., B.A.	1902	Sydenham.
Hasken, B., M.D.	1903	Greenbush.
Hastings, F. R., M.D.	1900	
Hawes, Ida E., M.A.	1905	Pasadena, Cal.
Hawley, A. T., M.A.	1899	Napanee.
Hawley, Gilbert T., B.A.	1897	
7Hay, Arthur G., B.A., '89; M.A.	1899	Killarney, Man.
4, 7, 13, *Hay, Jno., B.A., 1882; B.D.	1885	Renfrew.
Hay, William, B.A., 1883; M.D.	1887	Scotland, Ont.
5, 7, 16Haydon, Andrew, M.A., 1893; LL.B.	1896	Almonte.
Hay, W. McD., B.A.	1905	Kingston.
Hayes, William J., B.A.	1890	(Deceased.)
Hayunga, George, M.D.	1890	502 Canal St., New York.
Hazlett, J. W., B.A., 1901; B.Sc.	1903	(Deceased.)
1Heap, Frederick, M.A.	1890	Selkirk, Man.
Heath, Frederick C., B.A., 1878; M.D.	1886	Brantford.
Heenan, Daniel, B.A.	1849	(Deceased.)
Heeney, T. F., B.A.	1898	Lansdowne.
Heggie, David, M.D.	1865	Brampton.
Henderson, Donald, M.D.	1858	Emerson, Man.
Henderson, E. Mabel, M.D.	1892	Hamilton.
21Henderson, George F., B.A.	1884	Ottawa.
Henderson, E. W., B.Sc.	1905	Pittsburg, Pa.
Henderson, Johnson, B.A.	1885	
Henderson, Kenneth, M.D.	1883	(Deceased.)
Henderson, Norman R., M.D.	1895	London.
Henderson, William, M.D.	1895	(Deceased.)
*Henderson, William, D.D.	1862	(Deceased.)
Henderson, William H., M.D.	1879	(Deceased.)
Henry, George, M.D.	1869	(Deceased.)
Henstridge, Elizabeth, M.A.	1897	Campbellford, H.S.
Herald, Dundas, M.D.	1891	Walsh, Sask.
24Herald, John, (Prof., Queen's Univ.), B.A., 1876; M.A., 1880; M.D.	1884	(Deceased.)
Herald, R. T. Wilson, M.D.	1890	Walsh, Sask.
*Herbison, Robert, M.A.	1896	St. Giles' church, Toronto.
*Herbison, William J., B.A.	1895	Rochester, Eng.
Herchmer, Ethel M., (Tett) B.A.	1901	Bedford Mills.
Hermiston, George M., B.A.	1895	Picton.
Herriman, Weston LeRoy, M.D.	1855	Lindsay.
Herrington, Anthony W., M.D.	1881	(Deceased.)
Heslop, John E., M.D.	1887	

Name.	Date of Graduation.	Address.
3(*a*)Hewton, Gertrude, M.A....	1903	Kingston.
Hickey, Daniel C., M.D..	1883	(Deceased.)
Higgins, Edward M., M.D.. .. .	1877	(Deceased.)
Higginbotham, William, M.D...	1871	Walkerton.
Hilker, Adam E., M.D..	1889	Jamaica.
Hill, F. L., M.D..	1897	Seaforth, N. S.
CHill, James, M.A.	1906	Harrington West, Ont.
Hill, J. T., M.D..	1902	Napanee.
Hills, W. H., M.D..	1898	Acadia Mines, N.S.
Hillier, Solomon C., M.D..	1869	Bowmanville.
Hillier, William, M.D..	1855	(Deceased.)
Hindle, George, B.A..	1899	Slocan, B.C.
Hingston, Sir William, (Professor, Faculty of Medicine, Laval University) LL.D....	1903	Montreal.
9Hiscock, R. C., M.A., '96; M.D.	1900	Kingston.
Hiscock, Reta W., B.A..	1905	Kingston.
Hoag, James P., B.A..	1896	Brantford.
Hoare, Walter W., M.D..	1864	Strathroy.
Hodge, George, M.D., (Professor Western University)..	1870	London.
*Hodges, James, B.A..	1892	Oshawa.
20Hodgson, R. T., M.A..	1899	Guelph.
Hoffman, George C., LL.D.. ...	1895	Ottawa.
Hogan, J. T., M.D.....	1905	Perth.
*Hogg, John, D.D..	1871	(Deceased.)
Holdcroft, Joseph, M.D..	1889	(Deceased.)
Holdcroft, W. T., B.A., '88; M.D	1890	Havelock.
Holmes, F. S. LeRoy, M.D.. ..	1877	Kemptville.
*Hooper, Ebenezer, M.D..	1885	Toronto.
Hooper, Edm. J., B.A., '58; M.D.	1861	(Deceased.)
Hooper, Josephine A., (Robertson) B.A..	1885	St. John, N.B.
Hope, James A., B.A., 1862; M.A	1864	(Deceased.)
Hoppin, L. W., B.A., 1903; M.D.	1904	Kingston.
Hord, A. H., B.A., 1899; M.A..	1901	Mitchell.
Horsey, Alfred, M.D..	1865	Ottawa.
Horsey, Edward H., M.D..	1860	(Deceased.)
Horsey, Edward H., M.D..	1888	(Deceased.)
Horsey, Florence M., B.A..	1902	Kingston.
Horsey, Henry H., B.A..	1895	Shanghai.
3*Horsey, H. E., B.A., '86; M.A.	1887	Abbotsford, Que.
Horton, C. W., B.A..	1899	Toronto.
Horton, Robert N., M.D..	1879	Brockville.
Hossie, Thomas R., M.D..	1879	(Deceased.)
Hourigan, Andrew B., M.D.. ..	1877	
Hourigan, J. M., M.D.....	1905	Smith's Falls.
Houston, D. H., M.D..	1903	Belleville.
Houston, William R., M.D.. ...	1871	Chatham.

Name	Date of Graduation.	Address.
Howell, George W., M.D..	1867	Tweed.
Howells, Thomas B., M.D.. ...	1863	(Deceased.)
Hoyles, N. W., B.A., LL.D.....	1902	Toronto.
Hubbs, Henry A. M., M.D.....	1877	
Hudson, Charles H., M.D..	1896	Belleville.
Huff, S., B.A..	1902	I.P.S., East Grey.
Huffman, A. F., B.A..	1900	Gilead.
Huffman, F. G., M.D..	1897	Oswego Falls, N.Y.
Huffman, R. W. M.D..	1899	Georgetown, Minn.
Hugo, Frank M., B.A., 1892; M.A., 1893; LL.B..	1895	Watertown, N.Y.
Hughes, R. E., M.D..	1902	Ottawa.
3, 8Hume, John P., B.A..	1881	Campbellford.
Hunt, A. H., M.D.....	1905	Bridgetown, Barbadoes.
Hunt, Sara A., B.A..	1904	Pakenham.
*Hunter, Alexander, B.A...	1861	(Deceased.)
Hunter, H. A., B.A., '92; M.D..	1899	Antler, Sask.
Hunter, H. S., B.A..	1903	Smith's Falls.
5Hunter, James McF., M.A... ..	1883	(Deceased.)
*Hunter, Robert F., B.A., 1892; M.A., 1897; B.D..	1901	
*Hunter, Robert J., B.A..	1888	Arnprior.
Hunter, W. R., B.A., '99; M.A., 1900; M.D..	1903	(Deceased.)
Hurdman, A. G., M.D..	1901	Ottawa.
17*Hutcheon, Robert J., M.A...	1892	Cambridge, Mass.
Hutcheson, James, B.A..	1881	Brockville.
Hutcheson, J. H., B.A.....	1905	Saskatoon, Sask.
Hutchison, John, M.D..	1886	(Deceased.)
Hutchison, R. A., B.A..	1904	Walsingham.
Hutton, Maurice, (Principal of University College, Toronto) LL.D..	1903	Toronto.
Igoe, O. A., M.D..	1903	Tarrytown, N. Y.
Ikehara, Toshi C., B.A..	1896	Japan.
Ilett, Ambrose E., B.A., '94; M.D	1898	Watertown, N.Y.
Ingall, E. E., B.A..	1903	Trenton H. S.
Ingersoll, Isaac F., M.D..	1863	Picton.
Ingram, J. R., B.A..	1897	Lindsay.
Instant, Reginald A., B.A..	1895	Emerald.
Ireland, Charles F., B.A..	1866	Tacoma, Wash.
1Ireland, F. Archer W., M.A...	1891	New York, U.S.A.
Irvine, William H., B.A., 1877; M.D..	1896	
Irvine, R. W., B.A..	1897	
Irving, Lennox, B.A..	1886	Pembroke.
Irving, Robert M., B.A..	1896	Riverside, Cal.
Irving, William G., B.A..	1894	Riverside, Cal.
Irwin, Arthur W., M.D..	1896	Oswego, N.Y.

Name.	Date of Graduation.	Address.
Irwin, Chamberlain A., M.D....	1863	(Deceased.)
Irwin, William, B.A..	1896	Stratford.
Jack, George G., M.D..	1886	(Deceased.)
Jackson, H. G., B.Sc..	1903	Transcontinental Ry. Survey.
Jackson, V. W., B.A..	1903	Auckland Dist., N.Z.
James, Charles, M.D..	1888	Sylvan.
James, Herbert J., M.D..	1893	Bathgate, N. Dakota.
James, Michael, M.D..	1887	Mattawa.
Jamieson, Alexander, B.A..	1863	(Deceased.)
Jamieson, Alison, M.D..	1892	London.
Jamieson, Archibald, M.D.. ...	1886	Galetta.
Jamieson, David, M.D..	1888	Kars.
Jamieson, Georgina, (Huffman) M.A...	1899	Georgetown, Minn.
Jamieson, John, M.D..	1881	(Deceased.)
Jamieson, Thomas J., M.D.. ...	1888	Mountain.
James, E. J., LL.D..	1903	Chicago, Ill.
Jaquith, W. A., M.D..	1898	
Jardine, Robert, B.A., '63; M.A., 1866; B.D..	1886	Chicago, Ill.
Jarvis, Charles E., M.D..	1882	London.
*Jenkins, Ebenezer E., LL.D....	1889	London, Eng.
Jewett, Albert E., B.A..	1890	Chatham, Ont.
Jewitt, T. J., B.A.	1906	Campbell's Cross.
Johns, C. P., B.A., 1896; M.D...	1900	
*Johnston, Frederick W., B.A...	1886	Washington, N.J.
Johnson, D. B., B.A..	1901	Vancouver, B.C.
Johnson, William, B.A., '49; M.A	1852	(Deceased.)
Johnston, Absolom H. J., M.D..	1862	
Johnston, David A., M.D..	1881	(Deceased.)
Johnston, J. K., M.A....	1899	
Johnston, John W., M.A..	1894	Toronto East.
Johnston, G. L., B.A..	1897	Hamilton.
Johnston, J., B.A..	1897	Calabogie.
Johnston, Joshua R., B.A..	1881	Toronto, Ont.
Johnston, T. H., M.D..	1900	Drayton.
Johnston, W. A., M.A., 1903; B.Sc..	1905	Athens.
Johnston, William J., M.D.. ...	1891	
Johnstone, David, M.D..	1868	(Deceased).
Johnstone, William H., M.D....	1889	
Joly, Henry G. DeLotbiniere, LL.D..	1894	Victoria, B.C.
Jones, Alfred W., M.D..	1896	
Jones, F. A., B.A..	1905	
Jones, Henry M., M.D..	1866	Marmora.
Jones, John, M.D..	1874	Kemptville.
Jones, L. W., M.D..	1902	Portland, Ont.

Name.	Date of Graduation.	Address.
*Jordan, W. G., D.D., (Professor, Queen's University)..	1899	Kingston.
Joy, Sylvanus, M.D..	1857	Tilsonburg.
Joyner, Noble P., M.D..	1893	(Deceased.)
Judson, George W., M.D...	1879	Lyn.
Judson, H. P., (Vice-President and Head of Political Science Department) LL.D..	1903	Chicago, Ill.
Kahkewaquonaby, M.D..	1866	Hagersville.
Kalbfleish, Frederick H., M.D...	1888	Neustadt.
*Kannawin, William M., B.A., 1896; B.D..	1900	Woodville.
Karr, W. J., B.A.	1906	Sarnia.
Kay, William, M.A..	1855	(Deceased.)
Kayler, William B., M.D..	1896	
Kearnes, D. A., M.D..	1903	Ottawa.
Keillor, James, B.A..	1900	Ridgetown.
Keith, Sylvanus, M.D..	1898	New Glasgow, N. S.
Kellock, David, M.D..	1899	Harrisville, N.Y.
Kellock, John D., M.D..	1862	Deceased.)
5, 17Kellock, John McC., M.A...	1892	Riverfield, Que.
Kellock, W. McC., B.A..	1897	Weyburn, Sask.
Kelly, David, M.D..	1861	(Deceased.)
Kelly, Edward J., M.D..	1861	(Deceased.)
Kelly, John J., B.A., 1888; M.D..	1892	Sydney, N. S. W.
*Kelly, T. Webster, B.A..	1886	
Kelly, W. G., M.D..	1897	Bay City, Mich.
*Kemp Alexander F., LL.D.....	1871	(Deceased.)
Kemp, J. A., M.D..	1861	(Deceased.)
Kemp, James A., M.D..	1892	Indian Head, N.W.T.
3Kemp, W., B.A., 1898; M.A...	1899	Kingston.
Kennedy, Alexander, M.D... ...	1876	Port Arthur.
Kennedy, A. H., B.A..	1903	Cambridge, Mass.
Kennedy, Alfred, M.A..	1901	Kingston.
Kennedy, D. B., M.D..	1903	Pembroke.
Kennedy, Jacob B., M.D..	1873	New South Wales.
Kennedy, Jennie M., B.A..	1899	Guelph.
Kennedy, John D., B.A..	1885	New Westminster,B.C.
Kennedy, John T., M.D...	1891	
Kennedy, Roderick, M.D..	1863	Bath.
Kennedy, T., M.A..	1899	Jarvis St., C.I., Toronto.
Kennedy, T. B., M.D..	1873	
Kennedy, W. A., B.A..	1905	Bardezag, Ismidt, Turkey in Asia.
Kennedy, William B., M.D.. ...	1878	Guelph.
Kerfoot, H. W., B.A..	1900	Prescott.
Kertland, Edwin H., M.D.. .. .	1865	
Keys, S. J., B.A..	1904	Cornwall.

Name.	Date of Graduation.	Address.
Keys, S. J., M.D.	1905	Kingston.
Kidd, A. J., B.A.	1905	Prospect.
*Kidd, C. E., B.A.	1903	Prospect.
Kidd, Edward, M.D.	1871	Kingston.
Kidd, G. E., B.A.	1906	Prospect, Ont.
24Kidd, John F., M.D.	1883	Ottawa.
Kidd, William E., M.D.	1891	Oak Park, Ill.
Kidd, William J., B.A.	1887	Ottawa.
*Kidd, W. J., B.A.	1903	Prospect.
*Kidd, P. E.	1878	81 St. Mark's Ave., Brooklyn, N.Y.
Kilborn, H. J., M.D.	1899	Oso.
8Kilborn, Omar L., B.A., 1888; M.A., 1889; M.D.	1889	Chentu, China.
Kilborn, Ronald, M.D.	1879	Kingston.
Kilmer, E. E. C., B.A.	1904	Aylmer.
Kincaid, Robert, M.D.	1868	Olympia, Wash.
Kinkead, E. C., M.D.	1904	Kingston, Jamaica.
King, Francis, B.A., 1889; M.A.	1890	Kingston.
King, W. Wallace, M.A.	1895	Teachers' College, New York.
Kingsford, William, C.E., LL.D.	1889	(Deceased.)
Kingsley, F., M.D.	1905	Wolfe Island.
Kingsley, Patrick J., M.D.	1894	
Kirk, Fred Jas., B.A., 1888; M.D.	1892	404 Hamburg Ave., Brooklyn, N.Y.
Kirkconnell, Thomas A., B.A.	1894	Port Hope H. S.
Kirkland, W. S., M.A.	1901	Toronto.
Kirkpatrick, A. F., (Master of Selwyn Coll., Cambridge), D.D.	1905	Cambridge, Eng.
Kirkpatrick, Charles S., B.A.	1893	Kingston.
*Kirkpatrick, Francis G., B.A.	1891	Lombardy.
Kirkpatrick, Hon. Geo. A., LL.D.	1893	(Deceased.)
Kirkpatrick, Herbert R., B.A.	1895	Montreal.
Kirkpatrick, Guy H., B.Sc., 1897; M.E.	1898	London, Eng.
Knapp, Albert E., B.A.	1895	Kingston.
11bKnapp, E., M.A.	1905	Battersea.
12Knight, Archibald P., (Professor, Queen's Univ.) B.A., 1872; M.A.	1874	Kingston.
Knight, Cyril W., B.Sc.	1903	Kingston.
Knight, John H., M.D.	1880	Wallaceburg.
Knight, A. S., M.D.	1897	Enfield Centre, N. Y.
Knight, W., B.A.	1905	Belleville.
*Knowles, Robert E., B.A.	1892	Galt.
Knox, Henry, M.D.	1882	(Deceased.)
Knox, W. J., M.D.	1903	Beachburg.
Koyle, Frederick T., M.D.	1882	Fort Bliss, Texas.

Name.	Date of Graduation.	Address.
Koyl, Frank H., M.D.	1888	Hornellsville, N.Y.
Kyle Robert J. M., M.D.	1895	(Deceased.)
Kyle, William A., M.D.	1885	
Lafferty, James, M.D.	1871	Calgary, Alberta.
Lafferty, William A., M.D.	1879	(Deceased.)
Laidlaw, Alexander R., M.D.	1857	(Deceased.)
Laidlaw, C., B.A.	1902	Georgetown.
Laidlaw, J. H., B.A., 1900; M.D.	1903	Georgetown.
Laidlaw, R. J., B.A.	1906	Georgetown.
Laing, Maybelle, B.A.	1904	Kingston.
Laird, Annie L., B.A.	1901	Portage La Prairie.
Laird, D. H., M.A.	1898	Winnipeg.
*Laird, Robert, M.A.	1893	Vancouver, B.C.
Lake, Charles B., M.D.	1866	Ridgetown.
Lake, E. J., M.D.	1898	Kingston.
Lalonde, A. J., M.D.	1904	Port Neuf, Que.
Lambert, Robert, M.D.	1859	Windsor.
Lamont, John, B.A.	1890	
Lane, Isaac J., M.D.	1886	North Williamsburg.
Lane, Joseph W., M.D.	1875	Mallorytown.
Lanfear, Henry O., M.D.	1889	
*Lang, George R., B.A.	1885	Olds, Alta.
12*Lang, Wm. A., B.A., '73; M.A.	1876	(Deceased.)
14Langford, T. E., M.A.	1898	Shelburne.
*Langill, Paul F., B.A.	1881	Martintown.
Laurier, Wilfred, LL.D.	1898	
*Lavell, Alfred E., B.A.	1892	Waterloo.
Lavell, Cecil F., M.A.	1894	Lewiston, Maine.
Lavell, Charles H., M.D.	1873	(Deceased.)
Lavell, Harry A., B.A.	1888	Smith's Falls.
12Lavell, John R., B.A.	1877	Smith's Falls.
Lavell, Michael, M.D.	1863	(Deceased.)
Lavell, William A., M.D.	1881	(Deceased.)
Lavell, W. H., M.D.	1905	Kingston.
Lavers, Frank C., M.D.	1891	New Ross, N.S.
Lawlor, Michael, M.D.	1857	(Deceased.)
Lawlor, R. G., B.A.	1902	Sydenham.
Lawyer, Annie, M.D.	1888	Ottawa.
Lazier, D. B., M.D.	1901	
Leach, G. C., M.D.	1904	
Leahy, Bernard J., M.D.	1894	Point Jarvis, N.Y.
Leask, Harry, B.A.	1888	North Bay.
Leavitt, Arvin S., M.D.	1869	L'Amable.
Leavitt, Minnie G., M.D.	1893	East Hatley, Que.
*Leckie, N. M., B.A., B.D.	1902	Londesboro, Ont.
Lee, R. A., M.D.	1904	Port Hope.
Lee, S. G., B.A., (Prin. City Coll.	1905	Colombo, Ceylon.
Lees, Richard, M.A.	1891	Peterborough.

Name.	Date of Graduation.	Address.
Leitch, G. C., B.A.	1905	Dutton.
*Leitch, James A., B.A.	1892	
Lennose, J. S., B.Sc.	1906	Kingston.
Lent, Edwin J., M.D.	1892	South Bend, Ind.
Leonard, A. H., M.D.	1903	Kingston.
Leonard, Raymond A., M.D.	1879	Napanee.
Lesses, M., M.D.	1905	Kingston.
Le Sueur, W. D., LL.D.	1900	Ottawa.
Letellier, A., M.D.	1897	Peterboro.
Lett, Ralph M., B.A.	1889	
Lewis, Frederick W., M.D.	1878	Orangeville.
*Lewis, Lewis, B.A.	1881	
Lewis, L. L., B.A.	1900	
Lewis, T. N., B.A.	1900	Ottawa.
Liebner, E. O., B.A.	1902	Brampton, H.S.
Lindsay, C. V., M.A.	1900	
*Lindsay, John, B.A., '52; M.A.	1854	(Deceased.)
*Lindsay, M. A. F., B.A.	1904	Kingston.
Lindsay, Muriel C., B.A.	1905	Portsmouth.
*Lindsay Peter, B.A.	1851	Givens St., Toronto.
4*Linton, Adam, R., B.A., 1881; B.D.	1885	Harrow.
Litchfield, John P., M.D.	1863	(Deceased.)
Little, William C., M.D.	1889	Warracknabael, Aus.
*Livingston, John, B.A.	1857	(Deceased.)
Livingstone, John S., M.D.	1888	(Deceased.)
*Livingstone, Peter S., B.A.	1870	(Deceased.)
Livingstone, Marion (Gillen), M.D.	1887	(Deceased.)
*Lochead, Jno. S., B.A., '61; M.A.	1863	
Locheed, Lachlin T., B.A.	1888	Toronto.
Lochead, W. M., M.A.	1898	Berlin, Osaki, Ja.
Locke, John A., M.D.	1893	Algonquin.
Locke, M., M.D.	1905	Brinston's Corners.
Lockhart, Alfred J., M.D.	1892	Harrowsmith.
Lockhart, George D., M.D.	1890	King.
Lockhart, Thomas J., M.A.	1892	
Lodge, W. L., B.Sc.	1903	Charlottetown, P.E.I.
Lofthouse, William O. R., M.D.	1895	Kingston, Jamaica.
1, 18Logie, William A., B.A., '87; M.A., 1888; LL.B.	1892	Hamilton.
Longmore, H. B., B.A.	1898	Alexandria.
Longwell, A., B.A., 1900; B.Sc.	1903	Foxboro.
Losee, J. R., B.A.	1906	Collins' Bay.
Loucks, J. E., B.A.	1901	Frankville.
Loudon, James, President of University College), LL.D.	1894	Toronto.
*Love, Andrew T., B.A.	1878	Quebec.
Lowe, George R., B.A.	1895	Ottawa.

Name.	Date of Graduation.	Address.
Lowe, W. D., M.A.	1902	Ottawa.
*Low, G. J., D.D.	1898	Ottawa.
Lowry, Blanche T., B.A. (Dolan)	1903	Berlin.
Lunam, Henry, B.A.	1877	Campbellton, N. B.
Lyle, William D., M.D.	1896	Havana, North Dak.
Lynch, Dennis P., M.D.	1878	Almonte.
Lyon, Horatio V., B.A.	1885	Kingston.
Mabee, C. O., M.D.	1888	
Mabee, James E., M.D.	1887	Odessa.
Mabee, Horace C., B.Sc.	1898	Deseronto.
Machar, John M., B.A.	1857	(Deceased.)
Madden, John H., B.A.	1889	E. C. S. Bank Bldg., Buffalo, N.Y.
Mahaffy, A., B.D.	1905	Port Elgin.
Mahaffy, F. W., B.A.	1903	Alvinston.
Mahood, A. E., B.A., 1904; M.D.	1905	Erie, Pa.
Mahood, Perry, B.A.	1889	Kingston.
Mair, Alexander, B.A.	1851	
Malcolm, George, B.A.	1894	Stratford.
8Malcolm, L. M., M.A.	1905	Stratford.
Malcolm, William G., M.D.	1893	Chesley.
28, 9, 14Malcolm, Wyatt, M.A.	1906	Woodstock, Ont.
Malloch, Archibald E., M.D., B.A	1862	Hamilton.
Malloch, Edward G., B.A.	1860	Perth.
Malloch, Eleanor E., B.A.	1904	Hamilton.
Malloch, George, B.A.	1865	Arnprior.
Malloch, G. S., B.A., 1902; B.Sc.	1906	Hamilton.
Malloch, George W., B.A.	1850	(Deceased.)
Mallory, Charley N., M.D.	1888	Delta.
Malone, Edith, B.A., 1899; M.A.	1900	Kingston.
Malone, E. E., B.Sc.	1904	
Malone, Herb. V., B.A., '94; M.D.	1898	Frankford.
Mann, Alexander, D.D.	1876	(Deceased.)
*Mann, James, M.D.	1869	Renfrew.
Mark. Robert, M.D.	1867	(Deceased.)
Markle, J. H., B.A.	1902	
Marquis, Thomas G., B.A.	1889	Toronto.
Marselis, Eathen H., M.D.	1895	South Finch.
Marshall, D. H. J., B.A.	1904	Campden.
4, 13Marshall, Jno., B.A., 1886; M.A., Asst. Prof. of English, Queen's University	1889	Kingston.
Marshall, J. W., B.A.	1898	Windsor C. I.
Marshall, W. F., M.A.	1898	Brooklyn, N.Y.
3Marty, Alletta E., M.A.	1894	176 McLaren St., Ottawa.
3, 4Marty, Sophia E., M.A.	1897	Stratford.

Name.	Date of Graduation.	Address.
Mason, G. W., M.A..	1902	Toronto.
Mason, JamesW., B.A..	1878	(Deceased.)
Mason, W. R., M.D..	1901	Campden, Ont.
Massie, Agnes M., (Cooper) B.A	1895	Toronto.
Massie, John, M.D..	1865	(Deceased.)
Masson, Thomas, M.D..	1875	Cape Vincent.
Mather, William M., M.D... ...	1886	Tweed.
Mather, J. F., M.D..	1898	Belleville.
8Matheson, John, Assistant Professor in Mathematics, Queen's University) M.A..	1901	Kingston.
Matheson, Murdoch, M.D.. .. .	1870	Waverly, N.S.W.
8Matthews, S. W., M.A...	1897	Vancouver Coll., Vancouver, B.C.
Mattice, William D., B.A... ...	1847	(Deceased.)
Maudson, William H., B.A.. ..	1896	(Deceased.)
Maudson, G. A., B.A..	1898	(Deceased.)
Mavety, Alexander C., M.D.....	1889	
Maxwell, William J., M.D.. ...	1888	(Deceased.)
25, 5May, H. P., B.A., 1905; M.A.	1903	Little Current.
*May, John, B.A., 1857; M.A...	1861	Franktown.
Maybee, Curtis O., M.D..	1888	New Providence, Io.
Maybee, Millard, M.D..	1887	Riverside, Cal.
Meacham, George P., M.D.. ...	1891	
Meade, Robert, M.A..	1897	Windsor.
Meadows, R. W., M.D..	1862	H. M. Service.
Meagher, Daniel, M.D..	1867	Montreal.
Meek, C. F., M.D..	1900	New Baltimore, Mich.
*Meikle, William, B.A..	1881	Glace Bay, N.S.
Meiklejohn, A. J., B.A..	1898	Ottawa.
Meldrum, G. E., B.A.....	1906	Hull, Que.
Mellon, P. B., M.D..	1901	Queen St., Ottawa.
Mellow, L. E., M.D..	1902	Sillsville.
Mellow, F. E., M.D.....	1902	Sillsville.
Mellow, Samuel J., M.D..	1886	Port Perry, Ont.
Melleville, Edmond J., M.D.....	1892	Bakersville, Vt.
Menish, Janet I., (Kannawin) B.A	1895	Woodville.
Menzies, R. D., B.A., 1895; M.A., 1896; M.D..	1899	Rosemeath.
Mercer, John G., M.D....	1855	(Deceased.)
Merrill, J. Ward, B.A., '99; M.D.	1902	
Merriman, Wellington H., M.D.	1895	Latimer.
Merritt, C. P., B.Sc..	1899	(Deceased.)
Metcalfe, Archibald A., M.D....	1896	Almonte.
Michell, Kathleen M., B.A... ..	1905	Perth.
Might, L., M.A..	1904	Kingston.
*Millar, J. F., B.A..	1899	Blakeney.
Millar, T. R., B.Sc.....	1906	Kingston.
Miller, Cora, M.A.	1906	Aylmer, Ont.

Name.	Date of Graduation.	Address.
Miller, Eva M., B.A.	1902	Woodstock C. I.
Miller, F., B.A.	1904	Avening.
Miller, James D., B.A.	1896	
*Miller, J. H., B.A.	1904	Field, B. C.
Miller, James L., B.A.	1896	Byng Inlet.
*4Miller, John M., B.A., 1890; M.A., 1891; B.D.	1905	Nanaimo, B.C.
Miller, John, B.A.	1886	(Deceased.)
Miller, John C. S., M.D.	1890	
Miller, Lindsay F., M.D.	1877	
Miller, Thomas, B.A.	1852	(Deceased.)
Miller, Thomas, B.A., M.D.	1854	Hamilton.
*Milligan, G. M., (D.D.), B.A., 1862; LL.D.	1903	Toronto.
Milliner, William S., M.D.	1864	(Deceased.)
Millions, Edna M., (Mrs. J. R. Conn) B.A.	1901	Napanee.
Mills, Hon. David, LL.D.	1901	(Deceased.)
Mills, Rhoda, B.A.	1898	Cataraqui.
*Mills, Rt. Rev. Bishop, LL.D.	1901	Kingston.
Mills, John H., B.A., 1889; M.A.	1890	Waterford H. S.
Mills, Mabel V., B.A.	1901	Kingston.
Mills, Martha C., B.A.	1896	Port Hope.
*Mills, William G., B.A.	1885	California.
*Milne, James W. H., B.A.	1887	Ottawa.
Milne, M. R., B.A.	1903	Kingston.
3Minnes, Robert S., B.A., 1889; M.A., 1890; M.D.	1893	Metcalfe St., Ottawa.
Minor, Silas, M.A.	1865	(Deceased.)
1 2Misener, Geneva, M. A.	1899	Niagara Falls.
Mitchell, Charles F., M.D.	1890	Cleveland, Ohio.
Mitchell, Elizabeth, M.D.	1888	Montreal, Que.
Mitchell, G. A., B.A.	1899	Shadeland, Man.
2Mitchell, Geo. W., B.A., 1885; M.A.	1891	Cobourg.
Mitchell, Harry F., M.D.	1889	South Bend, Ind.
Mitchell, J., M.D.	1899	Gladstone, Mich.
Mitchell, Joel W., B.A.	1894	Kingston.
8Mitchell, Alfred S., M.A., (Professor Columbia College)	1894	Columbia Univ., New York.
Mitchell, J. V., B.A.	1903	Toronto.
Moffat, Wm., M.A., 1894; M.D.	1898	Utica, N.Y.
Moffat, W. J., B.A.	1905	Seaforth.
Montgomery, Fannie L., B.A.	1904	Kingston.
Montgomery, I. A., B.A.	1906	Pleasan Valley, Ont.
Montgomery, O. M., B.Sc.	1905	Pittsburg, Pa.
Montgomery, W. H., B.A.	1905	Newton, Falls.
Mooers, Henry F., B.A.	1895	Kingston.

Name.	Date of Graduation.	Address.
Mooney, Thomas T., M.D.	1896	Rochester, N. Y.
Moore, Andrew, M.D.	1863	(Deceased.)
Moore, H. M., M.D.	1903	Athens.
*Moore, John, B.A.	1881	Springbrooke.
Moore, John, M.D.	1891	Plainfield.
11Moore, Jas. R., B.A., '94; M.A.	1896	Toronto.
Moore, Margret B., B.A.	1904	
Moore, R. G., M.D.	1902	Belleville.
Moore, Thomas A., M.D.	1883	Westville, N.S.
Moore, Vincent H., M.D., 1870; LL.D.	1903	(Deceased.)
Morden, Frederick W., M.D.	1894	(Deceased.)
Morden, Gilbert W., B.A., 1888; M.A.	1905	Picton.
Morden, James B., M.D.	1865	(Deceased.)
Morden, John H., M.D.	1859	(Deceased.)
Morden, Wilson S., B.A., 1888; LL.B.	1894	Belleville.
Morden, J., B.A.	1900	Kingston.
Mordy, Alfred A., M.D.	1882	(Deceased.)
*Mordy, John, B.A., 1875; M.A.	1878	Oklahoma.
Morgan, Edward M., M.D.	1890	Westmount, Que.
Morgan, J., B.A.	1900	
Morris, Alexander C., B.A.	1882	Toronto.
Morris, William, B.A.	1882	Toronto.
Morrison, A. S., B.A.	1898	Hanover.
Morrison, C. A. O., M.D.	1898	Kingston.
Morison, D. W., B.A., D.D.	1903	Ormstown, Que.
*Morrison, Judge Duncan, B. A., 1866; M.A.	1868	(Deceased.)
Morrison, Duncan, B.A.	1862	Owen Sound.
8Mortin, Alice, (Byrnes) M.A.	1899	Gore Bay.
Mostyn, William, M.D.	1858	(Deceased.)
Mowat, Herbert M., B.A., 1881; LL.B.	1886	Toronto.
*Mowat, John B., (Professor, Queen's University) D.D., B.A., 1845; M.A.	1847	(Deceased.)
Mowat, John McD., B.A.	1895	Kingston.
Mowat, Sir Oliver, LL.D.	1872	(Deceased.)
Moxley, C. R., M.D.	1905	Kingston.
Muckleston, John S., B.A.	1865	Revelstoke.
5Mudie, Ethel, B.A.	1899	Kingston.
Mudie, John, B.A.	1863	(Deceased.)
Muir, Alexander, B.A.	1851	(Deceased.)
Muir, James, B.A.	1861	Calgary.
*Muir, Jas. B., B.A., 1865; M.A.	1869	(Deceased.)
*Muir, James C., D.D.	1858	(Deceased.)
*Muir, Peter D., B.A.	1856	(Deceased.)

Name.	Date of Graduation.	Address.
*Muirhead, John W., B.A..	1891	(Deceased.)
Muldrew, William H., B.A... ..	1895	(Deceased.)
Mullan, Nathaniel S., B.A..	1885	New York.
Mulloy, L. W., B.A.	1906	Winchester.
Mundell, Alma E., B.A..	1902	Kingston.
Mundell, David E., (Prof., Queen's Univ.) B.A., 1883; M.D.....	1886	Kingston.
Mundell, John, M.D..	1886	Kingston.
Mundell, William, B.A..	1875	Kingston.
Munroe, A. T., M.D..	1904	Moose Creek.
Munro, David, M.D..	1867	Perth.
Munro, John C., M.D..	1867	(Deceased.)
*Munro, J., B.A..	1897	
Munro, H. B., B.A..	1898	Lynn, Mass.
Munro, Maggie B., B.A..	1905	Iroquois.
Munro, Maud E., B.A..	1899	Perth.
*Munro, M. F., B.A.....	1904	Lancaster.
1, 2, 18Munro, P. F., B.A., 1899; M.A...	1905	Aylmer.
5, 25Munro, William B., (Prof., Harvard University) M.A., 1896; LL.B..	1896	Cambridge, Mass.
Munro, W. A., B.A..	1902	O.A.C., Guelph.
25Murphy, G. B., B.A..	1904	Brockville.
5Murphy, Isabella, M.A. (Mrs. Skelton)	1901	5618½ Drexel Ave., Chicago, Ill.
Murphy, John B., M.D..	1876	(Deceased.)
Murphy, Joseph E.. M.D..	1893	Pakenham.
Murphy, W. S., B.A., 1901; M.D.	1903	Portland.
11Murray, D. C., M.A..	1901	Newton.
Murray, Herbert G., M.D..	1896	Owen Sound.
*Murray, Isaac, D.D..	1876	New Glasgow, N.S.
*Murray, James, B.A., 1882; B.D.	1884	Toronto.
Murray, Janet, M.D..	1891	Schenectady.
Murray, J. C., B.Sc..	1901	New Londonderry, N. S.
*Murray, Robert C., B.A..	1882	(Deceased.)
Murray, Minnie (Chown), M.A.	1893	Renfrew.
Murray, May L., B.A..	1897	Kingston.
Murray, Walter C., (Professor of Philosophy, Dalhousie College and University) LL.D..	1903	Halifax, N.S.
Myers, Ambrose R., M.D..	1894	Moncton, N. B.
Mylks, G. W., M.D..	1897	Kingston.
Mylks, L. E., M.D..	1903	Woolsley, Sask.
Macadam, Samuel J., M.D.. ...	1873	Battleford, Sask.
*Macalister, John M., B.A.. ...	1865	Iroquois.

Name.	Date of Graduation.	Address.
Macalister, Ursilla, M.A. (Macdonnell)	1900	Hamilton.
Macarthur, Duncan, B.A.	1878	Ailsa Craig.
*Macarthur, George, B.A.	1881	Cardinal, Ont.
Macarthur, James, B.A., 1875; M.D.	1878	London.
*Macarthur, John A., B.A.	1880	Ential, Wash.
McArthur, J. H., B.A., 1895; M.D	1897	East Barre, Vt.
*McAuley, Alexander, B.A.	1883	Mitchell.
*Macauley, Evan, B.A.	1864	Ottawa.
Macauley, W. B. T., B.A.	1892	Montreal.
McBain, Alex., B.A., 1860; M.A.	1862	(Deceased.)
McBean, Alexander G., B.A.	1865	Montreal.
McBean, D. D., LL.D.	1905	New York City.
McBroom, James A., M.D.	1895	Brockville.
McCabe, A., M.D.	1903	Gloucester, Mass.
McCaig, James, B.A., LL.B.	1895	Lethbridge, Alta.
7McCallum, Judge Archibald B., B.A., 1880; M.A.	1881	Gore Bay.
McCallum, H. E., B.A., 1900; B.Sc.	1903	Kingston.
McCallum, J. A., B.A.	1899	
9McCallum, S., M.A.	1904	Brewer's Mills.
McCambridge, C. J., M.D.	1898	Poughkeepsie, N.Y.
McCambridge, J. E., M.D.	1903	Kingston.
McCammon, C. G., M.D.	1884	(Deceased.)
McCammon, Fred J., B.A., 1889; M.D.	1892	New York.
McCammon, James, M.D.	1863	(Deceased.)
McCammon, James A., M.D.	1879	Gananoque.
McCammon, Samuel H., M.D.	1888	Kingston.
*McCannell, Donald, B.A.	1878	(Deceased.)
McCardel, Edward, M.D.	1886	Wangaratta, Victoria.
McCarthey, A. W., M.D.	1897	
McCarthy, D. M., M.D.	1903	Kingston.
*McCaul, James, B.A.	1859	Toronto.
11McClement, William T., B.A, 1888; M.A.	1889	Armour Ins., Chicago.
McColl, Angus, D.D.	1896	(Deceased.)
McColl, Allan E., B.A., '85; M.D.	1891	Belleville.
*McColl, Evan C. W., B.A.	1886	
7McColl, James A., M.A.	1895	Campbellford.
6, 17, 25McConachie, J. C., B.A., 1903; B.D., 1905; M.A.	1906	Quebec.
McConkey, Katherine M. R., B.A.	1903	Brockville.
McConnell, Benjamin J., M.D.	1881	Morden, Man.
*McConnell, J. A., B.A., 1900; B.D.	1903	Roslin.
McConville, A., M.D.	1900	Kingston.

Name.	Date of Graduation.	Address.
McConville, Isobel, M.D.	1889	Kingston.
McCormick, Irene M, B.A.	1906	Kingston.
McCormack, Joseph, B.A.	1879	
McCormack, M., B.A.	1901	Crieff.
McCormack, S. G., M.A.	1903	
McCracken, John I., B.A.	1874	Ottawa.
McCrea, H. H., M.D.	1899	Easton's Corners.
McCreary, Robert N., M.A.	1895	Carleton Place.
McCrimmon, Annie L., B.A., (Purvis)	1902	Rosthern, Sask.
McCrimmon, J. R., B.A.	1906	Vankleek Hill, Ont.
McCuaig, H. D., B.A.	1906	Dalston.
McCuaig, Herbert M., B.A.	1884	Welland.
McCuaig, John A. E., M.D.	1891	Daneville, Pa.
McCullagh, R. J., B.A.	1902	Cobourg.
McCulloch, Andrew, B.A., 1871; M.A.	1874	Port Arthur.
McCulloch, J., M.D.	1901	Port Perry.
McCullough, F. C., M.D.	1904	Boston, Mass.
McCullough, Thomas P., M.D.	1888	Dundalk.
McCullough, William S., M.D.	1875	(Deceased.)
McCutcheon, J. M., B.A.	1905	St. Thomas.
McCutcheon, William C., M.D.	1894	Cassopolis, Mich.
McDermott, M. F., M.D.	1897	Kingston.
McDiarmid, S. S. R., B.Sc.	1903	Dominion Obs., Ottawa.
Macdonald, A., M.D.	1901	
*Macdonald, Alexander, B.A.	1861	Napanee.
Macdonald, Alexander R., M.D.	1857	Brighton.
McDonald, A. T., M.D.	1903	Williamstown.
McDonald, Charles, V.P.A.S.E., LL.D.	1894	New York.
*Macdonald, Clinton D., B.A.	1886	Grafton, N.Dak. USA
Macdonald, Colin, B.A.	1855	(Deceased.)
*Macdonald, Donald, B.A.	1854	(Deceased.)
*Macdonald, Duncan, B.A., 1859; M.A.	1863	Strathcona, Alta.
4Macdonald, George, B.A., 1878; B.Sc.	1878	(Deceased.)
McDonald, H. A., M.D.	1904	Coalfields, Sask.
Macdonald, Herbert S. Judge, B.A., 1859; M.A.	1861	Brockville.
Macdonald, Hugh N., M.D.	1882	Whycocomagh, N. S.
McDonald, Hugh S., B.A., 1891; M.D.	1895	Dresden.
Macdonald, J., B.A.	1905	Deseronto.
7, 25Macdonald, J. F., M.A.	1899	Carleton Place H. S.
MacDonald, Jas., M.A.	1892	Williamstown H. S.
2McDonald, James, M.A.	1892	Picton.

Name.	Date of Graduation.	Address.
*McDonald, John A., B.A.	1888	Morton.
Macdonald, Sir John A., LL.D.	1863	(Deceased.)
Macdonald, John A., M.D.	1862	(Deceased.)
Macdonald, John F., M.D.	1896	Kilkenny, Minn.
*McDonald, J. M., B.A.	1903	Orangeville.
*Macdonald, Kenneth J., B.A., 1894; B.D.	1896	Forest.
Macdonald, Nerva D. (Burns), B.A.	1894	Stirling.
Macdonald, Norval, B.A.	1900	Kingston.
Macdonald, Patrick A., B.A.	1876	Winnipeg.
*McDonald, Wm., B.A., '98; B.D	1901	Lanark.
Macdonnell, Æneas J., B.A.	1884	
*Macdonnell, Daniel J., B.D., B.A., 1858; M.A.	1860	(Deceased.)
1, 2Macdonnell, George F., M.A.	1893	Toronto.
Macdonnell, George M., B.A.	1860	Kingston.
McDonnell, Hector, M.D.	1893	(Deceased.)
Macdonnell, J. A., M.D.	1862	
2Macdonnell, James M., M.A.	1905	Kingston.
*Macdonnell, Logie M., B.A., 1902; M.A.	1904	Hamilton.
19Macdonnell, James S., M.A.	1899	Pasadena, Cal.
Macdonnell, John M., B.A.	1868	(Deceased.)
McDonnell, J. J., M.D.	1903	Edmonton, Alta.
McDougall, Colin A., B.A.	1895	St. Thomas.
9McDougall, F. H., B.A., 1902; M.A.	1903	Maxville.
McDougall, James B., B.A.	1896	North Bay H. S.
6McDougall, L. M., M.A.	1905	Brockville.
McDowell, Charles, B.A.	1877	Renfrew.
McDowell, James A., B.A.	1867	(Deceased.)
McDowall, J. L., M.D.	1903	Kingston.
MacEachern, E. G. D., B.A.	1905	Desbarats.
6McEachran, J. M., M.A., 1902; Ph. D.	1906	Glencoe.
McEachran, Mary, B.A.	1906	Strathburn, Ont.
McEwen, Alexander D., M.D.	1895	Hulbert.
McEwen, Ewen, M.D.	1887	
McEwen, G. G., M.A.	1903	Lakeport.
*McEwen, Jas., B.A., '52; M.A.	1854	
McEwen, John, B.A.	1887	Smith's Falls.
McEwen, J. S., B.A.	1897	Ottawa.
McFadden, Murdock, M.D.	1880	Mount Forest.
*Macfarland, John F., B.A.	1890	Warkworth.
Macfarlane, Andrew K. H., B.A.	1888	Vancouver, B.C.
Macfarlane, Christina S, B.A.	1906	Franktown, Ont.
7McGaughey, G. A., M.A.	1900	North Bay.
McGhie, George S., M.D.	1883	Elgin.
McGibbon, A. A., M.A.	1898	Hawkesbury.

Name.	Date of Graduation.	Address.
*Macgillivray, Alexander, D.D....	1858	(Deceased.)
8McGillivray, Alice, M.D..	1884	Hamilton.
*McGillivray, Daniel, B.A..	1864	Lunenberg, N. S.
McGillivray, Farquhar, B.A.. ..	1852	Ottawa.
Macgillivray, Florence, B.A.. ..	1905	Kingston.
*Macgillivray, Malcolm, B.A., '72; M.A., 1874; D.D..	1903	Kingston.
McGillivray, Neil J., B.A..	1847	(Deceased.)
Macgillivray, T. D., B.A., 1902; M.D....	1905	Kingston.
McGillivray, T. Shannon, M.D..	1888	Hamilton.
McGillivray, Wm., B.A..	1864	
McGonigle, M., M.D..	1904	Newboro.
McGrath, Edward, M.D..	1888	Peterboro.
McGrath, George, M.D...	1893	Hamilton, Mon.
McGrath, Michael E., M.D.. ...	1889	Chicago.
McGreer, C. G., B.A., 1901; M.D.	1903	Napanee.
Macgregor, Annie K., B.A.....	1905	Almonte.
McGregor, D. A., B.A..	1905	Tiverton.
Macgregor, Grace C., B.A.. ...	1905	Iroquois.
McGregor, James G., M.D..	1895	Martintown.
McGregor, Peter C., B.A., 1866; LL.D..	1901	Almonte.
*McGregor, P. G., D.D..	1876	(Deceased.)
McGuire, J., M.A..	1902	Almonte H. S.
12McGuire, Thos. H., B.A., Judge	1870	
23McGuirl, Thomas H., B.A....	1886	
McGurn, Joseph S., M.D...	1881	(Deceased.)
MacIlquham, W. L., B.Sc.... ..	1905	Dom. Topog. Survey Dept., Ottawa.
*McIlroy, William A., B.A.. ...	1898	Ottawa.
MacInnes, John A., B.A..	1895	Vankleek Hill.
MacInnes, Charles R., M.A.. ...	1896	Princeton Univ.
MacInnes, W. H., B.A., 1902; B.D..	1905	Vankleek Hill.
McIntosh, Alexander, B.A.. .. .	1897	Alexandria.
McIntosh, Colin, B.C.L., LL.B..	1896	Carleton Place.
McIntosh, Grace A., B.A..	1896	Lindsay.
McIntosh, G. E., M.D...	1903	Mississippi.
3*McIntosh, James W., B.A., '93; M.A..	1894	Mitchell.
McIntosh, Wm. D., B.A..	1892	Carleton Place.
*McIntosh, J. A., B.A..	1902	Minden.
McIntosh, P. A., B.A., 1902; M.D..	1905	Dundela.
McIntyre, Alex., B.A...	1898	Winnipeg.
Macintyre, A. D., M.D..	1901	Glencoe.
12McIntyre, Donald M., B.A....	1874	Kingston.
McIntyre, D. N., B.A..	1903	Montreal, Que.

Name.	Date of Graduation.	Address.
McIntyre, Duncan, M.D.	1864	Glencoe.
MacIntyre, J. M., B.A.	1903	Phoenix, Ariz.
McIntyre, John, B.A.	1847	(Deceased.)
McIntyre, John, B.A., 1861; M.A.	1872	Kingston.
*McIntyre, W. C., B.A.	1898	Newington.
McJanet, J., B.A.	1900	Albert St., Ottawa.
McKay, D. A., B.A.	1901	Science Master, Barrie C. I.
McKay, Donald G., B.A.	1865	(Deceased.)
*McKay, George L., D.D.	1880	(Deceased.)
McKay, John, B.A.	1888	Sault Ste. Marie.
MacKay, J. M., B.A.	1905	Kintore.
12, 20McKay, Matthew W., B.A.	1879	Pembroke.
McKay, R. B., B.Sc.	1904	Assayer, Pioneer Mine
*McKay, Roderick, B.A., 1881; B.D.	1886	Maxville.
*McKay, William E., B.A.	1856	(Deceased.)
8McKechnie, J. B., M.A.	1903	Toronto.
8McKechnie, J. H., B.A., 1901; M.A.	1902	Toronto.
McKechnie, W., M.D.	1902	Elmside, Que.
McKee, M. Lillian, B.A.	1900	Peterboro.
*McKee, William, B.A.	1872	Alliston.
McKellar, Dugald, M.D.	1855	(Deceased.)
McKellar, Kate, B.A.	1904	Hamilton.
McKellar, Margaret, M.D.	1890	Neemuch, India.
McKenty, James, M.D.	1890	Winnipeg.
McKenzie, Andrew, M.D.	1862	(Deceased.)
*McKenzie, Archibald, B. A., '88 B.D.	1892	Douglas.
*Mackenzie, Archibald A., B.A., '77; B.Sc., '77; M.A., '88; D.Sc.	1896	Osaki, Japan.
McKenzie, Edward, M.D.	1860	Smith's Falls.
MacKenzie, G. C., B.Sc.	1903	Brantford.
McKenzie, H. Maude, B.A.	1906	Gananoque.
McKenzie, John A., Judge, B.A.	1856	(Deceased.)
4McKenzie, Malcolm, B.A., '87; M.A.	1894	McLeod, Alta.
*McKenzie, D. A., B.A.	1898	South Monaghan.
McKeown, Henry A., M.D.	1895	Belleville.
*McKeracher, D. A., B.A.	1903	Dutton.
*Mackerras, John H., B.A., 1850; M.A.	1852	(Deceased.)
Mackerras, R. H., M.D.	1903	Kingston.
Mackie, David H., M.D.	1884	New York.
Mackie, F. H., B.Sc.	1903	Ottawa.
*Mackie, Rev. John, D.D.	1903	Kingston.

Name.	Date of Graduation.	Address.
Mackie, T. A., M.D.	1896	Kemptville.
McKillop, Alexander, B.A.	1877	Montreal.
*McKillop, Charles, B.A.	1875	Raymond, N. W. T.
McKillop, James T., M.D.	1889	(Deceased.)
McKinley, W. W., M.D.	1903	Kingston.
*McKinnon, Alex. D., B.A., 1894; B.D.	1897	Boston, Mass.
*MacKinnon, A. G., B.A.	1900	Oak River, Man.
MacKinnon, D. L., M.D.	1905	Lake Ainslie, N.S.
*MacKinnon, H. L., B.A., 1897; B.D.	1900	Lake Ainslie, C.B.
*McKinnon, John, B.A., 1886; M.A., 1889; B.D.	1889	Pinkerton.
*McKinnon, John, B.A., '94; B.D	1897	Mira, C.B.
*McKinnon, Malcolm, B.A.	1885	Woodbridge.
6*Mackinnon, M. A., B.A., '97; M.A.	1900	Halifax.
*MacLachlan, Alexander, B.A.	1884	Smyrna, Turkey.
Maclachlan, A. J., M.D.	1905	
McLaren, Alexander, M. D.	1865	Lancaster.
McLaren, A. F., M.D.	1897	Cornwall.
Maclaren, C. H., B.A.	1902	Ottawa.
*McLaren, Ebenezer D., B.A., '70; M.A., 1873; B.D., 1873; D.D.	1901	Toronto.
McLaren, James, B.A.	1850	Nelson, O.
McLaren, John, B.A.	1856	(Deceased.)
12McLaren, J. B., B.A., '76; M.A.	1878	Winnipeg, Man.
McLaren, Peter, B.A.	1854	(Deceased.)
McLaren, Peter, LL.D.	1868	(Deceased.)
McLaren, Peter, B.A.	1866	Ormstown, Que.
McLaren, T. C., M.D.	1903	Osceola.
McLaren, T. O., M.D.	1902	Lancaster.
*McLaren, Wm., (Prof., Knox College), D.D.	1883	Toronto.
7McLaren, W. W., M.A., 1899; B.D.	1902	Cambridge, Mass.
McLaughlin, Edward, M.D.	1886	Morrisburg.
*McLean, A., D.D.	1903	Blyth.
*McLean, Alexander, B.A.	1878	(Deceased.)
McLean, Allan Ed., B.A.	1899	Cornwall H. S.
McLean, Caird R., M.D.	1859	(Deceased.)
Maclean, Donald, M.D., LL.D.	1893	(Deceased.)
*McLean, Donald J., B.A.	1855	Arnprior.
McLean, Ernest H., M.D.	1891	Revelstoke, B.C.
*McLean, James M., B.A.	1887	Chatham, N. B.
McLean, James R., B.A.	1894	Arnprior.
McLean, Katherine G., B.A.	1896	Arnprior.
MacLean, Lauchlin H., B.A.	1894	Pictou, N.S.
McLean, Marion, B.A.	1906	London, Ont.

Name.	Date of Graduation.	Address
*Maclean, Matthew W., B.A., 1869; M.A..	1872	Arlington Beach, Sask.
McLean, N. J., B.A..	1899	Pembroke.
19McLean, R. A., B.A..	1903	Smith's Falls.
McLean, Solomon C., M.D.. ...	1874	Spencerville.
McLean, Thomas F., M.D..	1863	(Deceased.)
McLellan, D., B.A.	1906	Forrester's Falls.
McLellan, James A., M.D..	1891	Economy, N. S.
McLennan, A. L., B.A..	1897	Tilsonburg.
*MacLennan, Alexander, B.A...	1857	(Deceased.)
*MacLennan, Alex. K., B.A., '91; B.D..	1894	Boston, Mass.
McLennan, Alexander S., M.D..	1873	Chicago, Ill.
McLellan, C. Lillie, B.A.....	1906	Port Hope.
Maclennan, Donald B., K.C., B. A., 1857; M.A..	1861	Cornwall.
Maclennan, Donald, B.A., 1848; M.A..	1852	
McLennan, Donald R., M.D.. ..	1897	Cornwall.
McLennan, Duncan N., M.D.. ..	1891	Toronto.
McLennan, Elizabeth, B.A.. ...	1899	Canadian Pres. Mission, Wei Hwei, Honan, China.
Maclennan, Finlay M., B.A.. ..	1879	(Deceased.)
*McLennan, G. B., B.A..	1901	Huntsville.
Maclennan, Hon. Mr. Justice Jas., B.A., 1849; LL.D..	1885	Ottawa.
McLennan, J. D., B.A., B.Sc.. ..	1902	Dominion Observatory, Ottawa.
Maclennan, James J., B.A..	1887	Toronto.
Maclennan, John, Sheriff, B.A..	1855	Lindsay.
*Maclennan, Ken., B.A., '49; M.A	1868	(Deceased.
McLennan, K. R., B.Sc..	1904	Transcont. Ry. Survey, Lake Abitibi.
Maclennan, Roderick J., B.A....	1884	Toronto.
*Maclennan, Wm., B.A., '64; M.A	1866	(Deceased.)
6McLeod, Alexander, B.A... ...	1883	Morden, Man.
McLeod, J. A. F..	1854	(Deceased.)
*McLeod, John, B.A..	1883	(Deceased.)
McLeod, K. C., B.A..	1905	Golspie.
McLeod, Lola, B.A..	1904	Kingston.
McLeod, R. Norman, B.A.....	1905	Arcola, Sask.
4, 7, 15, 17, *McLeod, Peter A., B.A., 1887; M.A., 1890; B.D.	1892	Truro, N.S.
McMahon, James, M.D...	1873	Texarkana, Texas.
McManus, Emily, M.A..	1894	Chesley.
McManus, John P. C., M.D.. ..	1897	Bath.
Macmilan, Duncan, Judge, B.A..	1857	Cayuga.

Name.	Date of Graduation.	Address.
McMillan, A., B.A.	1899	Beulah, Man.
MacMillan, A. D., M.D.	1905	Finch.
MacMillan, A. E., M.D.	1903	Sydenham.
McMillan, G., B.A.	1906	Glenallen.
McMillan, Hugh H., B.A.	1880	Davenport, Wash.
*McMillan, J., D.D., B.A., 1862; B.D.	1865	Halifax.
*McMorine, John, D.D.	1865	(Deceased.)
*Macmorine, Jno. K., B.A., 1859; M.A., 1863; (Rector of St. James' church) D.D.	1903	Kingston.
*Macmorine, Sam., B.A., 1865; M.A.	1872	Portage la Prairie.
*McMullen, Andrew J., B.A.	1893	Merrickville.
McMurchy, Archibald, M.D.	1883	North Bay.
McMurchy, Archibald, B.A.	1875	Nipissing.
McNab, A. J., B.A., B.Sc.	1902	Can. Smelting Works, Trail, B.C.
4McNab, Eliz. M., B.A., '01; M.A.	1902	Lindsay.
*Macnab, Findlay F., B.A.	1859	Arnprior.
McNab, George G., M.A.	1902	Renfrew.
McNab, Robert C., B.A.	1896	(Deceased.)
McNaughton, Elizabeth, M.A.	1900	Cornwall.
*Macnaughton, James P., B.A.	1884	Smyrna, Turkey.
McNee, J. E., M.D.	1891	(Deceased.)
Macnee, James H., B.A.	1885	Kingston.
Macnee, Peter C., B.A.	1873	Picton.
MacNeill, W. K., B.Sc.	1903	Markham.
McNichol, Eugene C., M.D.	1877	Cobourg.
McPhaden, Murdoch M., M.D.	1880	
McPhail, A. C., B.A.	1899	Almonte.
*McPhail, Donald G., B.A.	1889	Pincher Creek, Alta.
Macphail, J. G., B.A., 1903; B.Sc.	1905	
*McPhayden, Hugh, B.A.	1881	Manilla.
Macpherson, Alexander J., M.D.	1862	(Deceased.)
McPherson, Charles F. S., M.D.	1896	Prescott.
McPherson, Edgar Allan, B.A.	1900	
Macpherson, Hattie G., B.A.	1897	Prescott.
Macpherson, Hector, B.A.	1903	Chicago, Ill.
Macpherson, Henry, B.A.	1851	(Deceased.)
Macpherson, Jas. P., B.A., 1857; M.A.	1865	Ottawa.
Macpherson, Mary C., B.A.	1900	Hamilton.
*McPherson, Neil, B.A., 1889; M.A., 1891; B.D.	1894	Indianapolis, Ind.
McPherson, Norman A., B.A.	1889	
McPherson, R. J., B.A.	1898	Cartwright, Man.
McPherson, Wallace A., B.A.	1891	(Deceased.)

Name.	Date of Graduation.	Address
McPherson, William A. A., M.D.	1891	Prescott.
Macpherson, W. E., LL.B..	1898	Prescott.
McQuarrie, Alexander R., B.A..	1862	
*McQuarrie, W. J., B.A..	1904	Pittsburgh.
Macqueen, M. A., B.A..	1903	Winnipeg, Man.
14McRae, A. D., B.A., 1900; B.Sc.	1902	Kingston.
*Macrae, Donald, D.D..	1880	Calgary.
McRae, Donella M., B.A..	1900	Perth.
McRae, Thomas W. R., B.A....	1886	Westmount, Que.
McSporran, J. A., B.A..	1902	Philadelphia.
*McTavish, Alexander, B.A.. ..	1881	Carnduff, Sask.
6, 17, 20, 24, *McTavish, D., B.A., 1881; M.A., 1882; D.Sc.....	1885	Toronto.
McTavish, Duncan B., Judge, B. A., 1870; M.A..	1873	Ottawa.
McVety, Albert F., M.D..	1886	Toledo, Ohio.
McVicar, John, B.A...	1897	
*Nairn, Robert, B.A...	1879	
Nash, P. I., M.D..	1902	Kingston.
*Neill, Robert, D.D..	1872	(Deceased.)
Neill, Rev. John, D.D..	1904	Toronto.
Neilson, Bertha, B.A..	1896	Wilton.
Neish, A. C., B.A., 1898; M.A..	1900	Columbia Univ., New York.
Neish, James, M.D...	1865	Port Royal, Jamaica.
Neish, George J., M.D..	1890	Bath, Jamaica.
Neish, William D., M.D..	1887	Old Harbor, Jamaica.
Neish, James, M.D..	1897	Kingston, Jamaica.
Neish, D. B., M.D..	1897	Port Royal, Jamaica.
*Nelles, Samuel S., D.D...	1861	(Deceased.)
Nelson, John, B.A..	1899	Ottawa.
Nesbit, Edward, M.D..	1868	(Deceased.)
Neville, K. P. R., B.A., '96; M.A.	1897	Univ. of Ill., Urbana, Ill.
Neville, M. J., M.D..	1893	Brooklyn, N.Y.
Newell, James, M.D.....	1903	Watford.
Newlands, George, M.D...	1879	Seattle, U. S.
Newlands, Isaac, B.A..	1884	Buffalo, N. Y.
Newman, George E., B.A..	1891	Brighton, H. S.
Newton, John, M.D..	1866	Deseronto.
5Newton, Meta, B.A..	1902	Deseronto.
Nichol, C. O., B.A..	1905	Hamilton.
*Nicholson, Alex. B., (Professor, Queen's University), B.A...	1867	Kingston.
Nickle, William F., B.A..	1892	Kingston.
Nicol, James, M.D..	1863	(Deceased.)
Nicol, Jennie (McKelvey), B.A.	1893	(Deceased.)
8, 11, 14, 23Nicol, Wm., Prof., Mining School), B.A., 1883; M.A....	1889	(Deceased.) Kingston.

Name.	Date of Graduation	Address.
Nicolle, F. R., B.A.	1903	Kingston.
*Nimmo, John H., B.A., 1869; M.D.	1886	Detroit, Mich.
Nimmo, H. M., B.A.	1898	Detroit, Mich.
Nisbet, David A., B.A.	1892	Newburgh H. S.
Nish, James, D.D.	1880	(Deceased.)
*Niven, David P., B.A.	1867	St. Catharines.
Noble, D. S., B.Sc.	1902	Can. Smelting Works, Trail, B.C.
Noel, John V., B.A.	1863	(Deceased.)
Norris, Isaac T., B.A.	1894	Ottawa.
8Norris, James, M.A.	1893	Walkerton H. S.
North, Edwin, B.A.	1896	Young's Point.
Northmore, Harold S., M.D.	1889	Bath.
Nugent, Andrew, B.A.	1876	(Deceased.)
Nugent, A., B.A., 1897; M.D.	1899	Dhar, Central India.
O'Connell, Marguerite E., B.A.	1906	Peterboro.
O'Connor, C. E., M.D.	1898	Kingston.
O'Connor, Charles, B.A.	1890	Ottawa.
O'Connor, Michael J., LL.B.	1892	
Odell, Henrietta (Laird), B.A.	1895	Kingston.
Odell, Lena, B.A.	1906	Belmont.
Odlum, John, M.D.	1880	Woodstock.
Ogilvie, H. G., M.D.	1899	Kingston, Jamaica.
Ogilvie, Nettie, M.D., (Oughten)	1888	Kingston, Jamaica.
O'Hagan, T. F., M.D.	1900	Frank, Alta.
O'Hara, Margaret, M.D. (Medical Missionary)	1891	Dhar, India.
O'Hara, J. J., M.D.	1898	Alma City, Minn.
Oldham, Edmund, M.D.	1881	Chatsworth.
Oldham, John H., M.D.	1891	Yarker.
Oliver, Alfred S., M.D.	1863	(Deceased.)
Oliver, John K., M.D.	1868	(Deceased.)
Oliver, Marion, M.D. (Medical Missionary)	1886	Indore, India.
O'Loughlin, Robt. S., B.A., 1865; M.A.	1874	Butterick Pub. Co., New York.
O'Neil, Thomas, M.D.	1888	(Deceased.)
O'Reilly, Anthony, M.D.	1861	(Deceased.)
6O'Reilly, James R., Judge, B.A.	1852	Cornwall, Ont.
O'Reilly, T. J., M.D.	1902	(Deceased.)
O'Rourke, Thos. A., B.A., LL.B.	1895	Trenton.
Orser, T. H., B.A., 1899; M.D.	1902	Glenvale.
Osgoode, J. A., B.A.	1906	St. Thomas, Ont.
O'Shea, James F., M.D.	1881	(Deceased.)
O'Shea, James, B.A.	1891	
Ostrom, Ethel L., B.A.	1905	Alexandria.
O'Sullivan, John, M.D.	1868	(Deceased.)

Name.	Date of Graduation.	Address.
*Oxley, Malcolm S., B.A..	1878	Montreal.
Page, Thomas A., M.D..	1883	(Deceased.)
Pannell, W. L., M.D..	1903	Kingston.
2Parker, Frank R., B.A..	1887	
Parker, James, B.A..	1898	Stirling.
Parker, Mabel (Ross), B.A.. ..	1895	Kingston.
Parker, Robert, M.D..	1861	Stirling.
Parker, R. D. W., M.D..	1900	Bermuda.
Parkyn, H. A., M.D..	1892	Chicago, Ill.
Parlow, Allen B., M.D...	1894	Iroquois.
Parmelee, George W., B.A.. ...	1889	Quebec.
Parsons, J. E., B.A..	1905	Toronto.
*Patterson, Andrew, B.A..	1884	Montreal.
2Patterson, Andrew O., M.A....	1897	Carleton Place.
*Patterson, Gilbert C., B.A., '78; M.A..	1880	Embro.
Patterson, Harriet M., B.A.....	1906	Picton.
Patterson, James A., M.D.. .. .	1889	Iron River, Wis.
Patterson, James R., M.D..	1867	Port Elgin.
Patterson, John M., M.D..	1890	Okeowa, Neb.
Patterson, Richard L., M.D.. ..	1885	Buffalo, N. Y.
Patterson, W. J., M.D..	1902	Peterboro.
3, 13Patterson, Wm. J., B.A., '88; M.A..	1895	Toronto.
Patterson, W. R., B.A..	1902	Kingston.
Paul, H. E., B.A., 1898; M.D...	1901	Newburgh.
Paul, J. H., M.D..	1898	Jamesville, N. Y.
4, 7Peacock, Edward R., M.A...	1894	Dom. Securities Co., Toronto.
Pearce, W. R., M.A..	1905	Wallacetown.
*5, 25, 4, 7Peck, W. W., M.A., '94; LL.B..	1894	Arnprior.
Pennock, N. I., M.D..	1904	Ogdensburg, N.Y.
Pense, E. H., B.Sc..	1903	Georgian Bay Canal Survey, Lake Talon.
Pentland, G. E., B.A..	1904	Heathcote.
Perault, Julian, M.D..	1857	
Perney, F. E., B.A..	1903	Ottawa.
*Perrin, Louis, B.A..	1884	Wroxeter.
Petapiece, A. W., B.A..	1903	Merrickville.
Peterson, Wm. C. M. G. (Principal and Professor of Classics, McGill University), LL.D...	1903	Montreal.
5Pettit, L. J., B.A..	1904	St. Thomas.
*Petrie, J. A., B.A., 1901; B.D...	1906	Belleville.
*Phalen, Ronald M., B.A..	1889	Shelbourne.
Phelan, Daniel, M.D..	1877	Kingston.
Phelan, Leopold, B.A., M.D.....	1890	Ackley, Iowa.
Philp, J. H., M.A..	1903	Morrisburg.

Name.	Date of Graduation.	Address.
Pierce, Ada E., B.A.	1904	Willetsholme.
Pilkie, P. J., B.A.	1895	Fort William H. S.
Pike, N. J., M.D.	1898	Saginaw, Mich.
Pinkerton, W. A., B.Sc.	1906	Portland.
Pirie, Alexander F., M.D.	1887	Cartago, Costa Rica.
Pirie, Edwin, B.A.	1888	
Pirie, H. H., B.A.	1890	Cartago, Costa Rica.
Pitblado, Colin, M.D.	1886	(Deceased.)
*Pitts, F. E., B.A.	1897	New Liskeard.
1Playfair, Alfred W., M.A.	1896	Tokio, Japan.
Platt, E. O., B.A.	1904	Plainfield.
Platt, G. A., B.A.	1906	Portsmouth.
Pocock, C. E., B.A.	1902	Little Current.
*Pollock, Peter M., B.A.	1881	Scotland.
*Pollok, Allen, D.D., (Principal, Presbyterian College)	1876	Halifax.
Polson, Susan C., (Rollins), B.A.	1896	London.
4Polson, S. M., M.A.	1905	Kingston.
Poole, A. W., B.A.	1899	
Pope, Egerton L., B.A.	1895	Winnipeg, Man.
Pope, F. J., M.A.	1891	104 John St N.Y. City.
Pope, Step. D., B.A., '61; LL.D.	1890	Victoria, B.C.
Porteous, C. A., M.D.	1901	Verdun.
Porter, S. E., M.D.	1900	South Mountain.
Porter, W. C., B.A.	1903	Cleveland, Ohio.
*Potter, James G., B.A.	1891	Peterboro.
Potter, Levi, M.D.	1870	Enniskillen.
Potter, Samuel, M.D.	1875	(Deceased.)
Potter, Thomas, M.D.	1876	Ottawa.
Powell, George K., B.A.	1891	Toronto.
Powell, W. B., B.A.	1901	Brockville.
Power, Gertrude F. E., B.A.	1903	Kingston.
Power, J. F., M.A.	1899	
Power, John J., B.A.	1900	Halifax, N.S.
Pratt, William F., M.D.	1888	(Deceased.)
Pratt, Wilton, M.D.	1888	Carleton Place.
Prendergast, A. R., B.A.	1901	
Preston, Richard, M.D.	1875	Carleton Place.
Preston, Robert H., M.D.	1864	Ottawa.
Price, Cornelius V., Judge, LL.B.	1863	Kingston.
Price, Edwin, B.A.	1888	Dundas.
Price, Henry H., B.A., '77; M.D.	1890	Cartago, Costa Rica.
Price, Robinson B., M.D.	1886	Bath.
Pringle, H. S., B.A.	1899	Oak Park, Ill.
*Pringle, John, B.A., 1875; D.D.	1904	Dawson, Yukon.
Pringle, J. F., B.A.	1905	Cornwall.
Pringle, Robert H., B.A.	1882	Brampton.
Pritchard, J. A., M.D.	1903	Brockville.
*Prittie, W. T., B.A.	1897	Vernon.

Name.	Date of Graduation.	Address.
Proderick, W. S., M.D.	1900	Ottawa.
Purdy, Alvanley N., M.D.	1873	
Purdy, Charles W., M.D., 1869; LL.D.	1898	(Deceased.)
Purdy, May C., B.A.	1904	Kingston.
Purdy, Victor M., B.A.	1894	Sherbrooke, N.S.
Purvis, W., B.A.	1899	Rosthern, Sask.
Putman, J. H., B.A.	1899	Ottawa.
2Quigley, J. P., M.A.	1903	Kingston.
Race, W. B., B.A.	1903	London, Ont.
Rainsbury, W. C., M.D.	1900	Skegby, Notts, Eng.
Rainstead, H.	1887	
Ramsay, D. C., B.A.	1906	Grand Valley.
Ramsay, Robert, M.D.	1861	(Deceased.)
Ramsay, W., B.A.	1902	
Rand, Silas T., LL.D.		Hantsport, N. S.
Randall, C. R., M.D.	1905	Seeley's Bay.
Raney, Wesley H., B.A.	1895	Lachute, Que.
Rankin, William H., M.D.	1889	Brooklyn, N. Y.
*Rannie, Alex., B.A.	1898	Nairn.
Ranstead, William, M.D.	1887	Ottawa.
Rathbun, Herbert B., B.A.	1883	(Deceased.)
3*Rattray, James, B.A.	1887	Eganville.
Rawlins, J. W., B.A., 1899; B.Sc.	1901	Copper Cliff.
Raymond, C. Nelson, M.D.	1891	New Rochelle, N.Y.
Rayside, Edith, B.A.	1896	Ottawa.
Redden, Marion, B.A.	1903	Kingston.
*Reddon, John A., B.A.	1889	Fort Coulonge.
Redmond, A. V., B.Sc.	1903	Kingston.
Redmond, Robert C., B.A., 1895; M.D.	1898	Wingham.
Redmond, W. C., M.D.	1901	Bethel.
Reekie, J. S., M.D.	1902	Sidney, N. S. W.
Reeve, Richard A., M.D., (Dean, Toronto School of Medicine)	1865	Toronto.
Reeve, John L., M.D.	1882	Clinton.
Reeve, Henry H., M.D.	1880	(Deceased.)
Reid, Etta A., (Newlands) M.A.	1892	Kingston.
Reid, E. J., B.A.	1904	Centreville.
Reid, F. D., B.Sc.	1904	Kingston.
Reid, G. M., M.D.	1903	Dudsbury, Alta.
Reid, J. A., B.Sc.	1902	
Reid, John D., M.D., M.P.	1890	Cardinal.
Reid, Lulu, B.A.	1905	Kingston.
Reid, R. M., M.D.	1902	Osgoode Station.
Reid, R. G., M.D.	1905	Erie, Pa.
Reid, S. M., B.A.	1899	Kingston.
Reid, Victoria, B.A., 1900; M.D.	1904	Kingston.
*Reid, William, D.D.	1876	(Deceased.)

Name.	Date of Graduation.	Address.
Reid, William D., M.D.	1880	Barre, Vt.
Reid, M. R., M.A.	1897	Napanee.
Reilly, Adrian, M.D.	1862	(Deceased.)
*Renaud, Allen C., B.A.	1864	Montreal.
Reynolds, Helen E., (Ryan), M.D	1885	Kingston.
Reynolds, M., B.A., 1903; M.D.	1905	Athens.
Richardson, Rev. A. W., M.D.	1899	Kingston.
Richardson, E., M.D.	1901	Brockville.
Richardson, G. T., B.Sc.	1906	Kingston.
Richardson, J. A., B.A.	1906	Kingston.
Richardson, William W., B.A.	1893	Winnipeg.
Rielly, F. J., B.A.	1903	Sydenham.
*Rigby, O., (Headmaster, Trinity College School, Port Hope) LL.D.	1903	Port Hope.
Rigney, Timothy J., B.A.	1895	Kingston.
Ritchie, Geo., B.A., 1878; B.Sc.	1878	Toronto.
Robb, D., B.A.	1903	Brussels.
Robb, J. J., B.A., 1904; M.D.	1905	Battersea.
Robb, W. M., M.D.	1905	Lunenburg.
38Robertson, Alex. M., M.A.	1896	Harriston.
Robertson, Alexander C., M.D.	1893	Dawson, Y. T.
Robertson, Donald M., B.A.	1886	Toronto.
Robertson, D. M., B.A.	1899	Harwich.
Robertson, G. D., B.A.	1903	Stratford.
Robertson, J. B., B.A.	1903	
Robertson, J. J., B.Sc.	1906	Fergus Falls, Minn.
Robertson, J. J., M.D.	1903	Montreal, Que.
Robertson, John W., M.D.	1888	
Robertson, J. W., LL.D.	1903	Ottawa.
Robertson, Miles S., B.A.	1884	Violet.
Robertson, Struan G., B.A.	1891	Hopewell, N. S.
Robinson, Andrew, M.D.	1889	Kalamazoo, Mich.
Robinson, Andrew, M.D.	1895	Fort Wayne, Ind.
Robinson, Edward B., M.D.	1891	
Robinson, F. A., B.A.	1904	
Robinson, J., B.A.	1903	Hamilton.
Robinson, E. J., M.D.	1904	North Williamsburg.
Robinson, Robert P., M.D.	1888	Ottawa.
Robinson, Robert R., M.D.	1892	Trout Lake, B.C.
Roche, William P., M.D.	1860	(Deceased.)
Rockwell, Albert, M.D.	1868	Lewiston, Idaho.
Rockwell, Ashbel S., M.D.	1872	Rochester, N.Y.
Roddick, A. M., B.A.	1906	Lyndhurst.
Roddick, T. G., LL.D., (Dean of the Faculty of Medicine, McGill University)	1903	Montreal, Que.
Rogers, James C., B.A.	1894	1735 46th St., Brooklyn, N.Y.

Name.	Date of Graduation.	Address.
1Rogers, C. S. G., M.A.	1901	Montreal, Que.
Rogers, R. Vashon, B.A., 1861; LL.D.	1895	Kingston.
Rogers, David H., M.D.	1881	Gananoque.
28Rogers, W. C., M.A.	1899	Linden Valley.
*Rollins, James, B.A.	1895	London.
Rollo, James, B.A.	1852	(Deceased.)
*Romanes, George, LL.D.	1866	(Deceased.)
Roose, E. C. Robson, LL.D.	1889	London, Eng.
Rose, George R., B.A., '56; M.A.	1860	(Deceased.)
*Rose, G. W., B.A.	1898	Mono Centre.
Rose, S. L. E., B.Sc.	1903	Tamworth.
Ross, Alex. H. D., B.A., '88; M.A.	1889	St. Mary's.
Ross, Arthur E., B.A., '92; M.D.	1897	Kingston.
*Ross, Donald, B.A., 1860; M.A., 1862; B.D., (Prof., Queen's University)	1863	Kingston.
Ross, George S., B.A.	1856	
Ross, G. W., Hon., (Premier of Ontario) LL.D.	1903	Toronto.
*Ross, James, D.D.	1864	(Deceased.)
*Ross, James, B.A., 1878; M.A., 1881; B.D., 1881; D.D.	1898	London.
Ross, John Reid, B.A.	1862	
Ross, Thomas K., M.D.	1863	(Deceased.)
*Ross, Walter, B.A., 1859; M.A.	1862	(Deceased.)
Ross, William A., Judge, B.A.	1855	(Deceased.)
Ross, W. J., M.D.	1900	(Deceased.)
Rothwell, William, B.A.	1881	
Rourke, Francis, M.D.	1872	(Deceased.)
Row, R. K., B.A.	1897	Berwin, Ill.
Rowse, Mark R., B.A.	1870	Bath.
Roy, E., M.D.	1901	Forester, Sanilac Co., Mich.
Roy, Henry, M.D.	1885	Chisholm.
Russell, Donald G., M.D.	1885	Spokane, Wash.
Russell, F. Howard, B.A.	1889	Victoria, B. C.
Russell, Jean McG., (Young) B.A	1894	(Deceased.)
Russell, Margaret, B.A.	1897	Ottawa.
Russell, W. J., B.A.	1900	Crystal City, Man.
Russell, Samuel, B.A.	1882	Deseronto.
Rutledge, S. H., M.D.	1904	Thomasburgh.
Ruttan, Emily, B.A.	1902	Kingston.
Ruttan, Franklin S., M.D.	1893	Yarker.
Ruttan, Joseph B., M.D.	1863	Wellington.
Rutherford, David B., M.D.	1882	(Deceased.)
Rutherford, James, M.D.	1870	Orono.
Ryan, Clara, M.D.	1893	

Name.	Date of Graduation.	Address.
Ryan, Edward, B.A., 1886; M.D., Prof., Queen's University)	1889	Kingston.
Ryan, Michael D., M.D.	1891	Saginaw, Mich.
Ryckman, Freda L., B.A. (Dale)	1898	
Ryerson, S. Edward, M.A.	1895	(Deceased.)
St. Remy, C. de, M.D.	1902	(Deceased.)
Sadler, G. S., M.D.	1899	Combermere.
Sands, Ernest, M.D.	1889	(Deceased.)
Sands, Wm. W., M.D.	1894	Kingston.
Sargent, F. R., B.A.	1905	Kingston.
Saunders, Elsie E., M.A.	1905	Kingston.
Saunders, Herbert J., M.D.	1869	(Deceased.)
Saunders, Lawrence, M.D.	1868	(Deceased.)
Saunders, Wm., F.R.S.C., LL.D.	1896	Ottawa.
14Saunders, W. J., M.A.	1900	Morrisburg.
Saunders, W R., B.A.	1899	Dundas H. S.
Sayers, Alexander, M.D.	1870	(Deceased.)
Scales, Thomas, B.A., '78; M.D.	1887	(Deceased.)
Schofield, S. J., B.A.	1906	Kingston.
Schultz, Hon. John C., M.D., LL.D.	1894	(Deceased.)
Scott, A., B.A.	1899	Glenmorris.
*Scott, Alex. H., B.A., '75; M.A.	1878	Perth.
8Scott, Colin A., B.A.	1885	Chicago.
Scott, H. H., B.Sc.	1905	Montreal, Que.
Scott, J. M., B.A.	1897	Mt. Vernon, N.Y.
Scott, Jean M. C., B.A.	1905	Kingston.
*Scott, Marcus, B.A.	1893	Detroit.
Scott, O. N., B.Sc.	1903	Le Roi Mining Co., Rossland, B.C.
Scott, Patrick J., M.D.	1888	Southampton.
Scott, R. A., B.A.	1905	Walkerton.
Scott, R. H., M.D.	1905	
*Scott, Thomas B., B.A., 1875; M. D., (Medical Missionary)	1892	Jaffna, Ceylon.
*Scott, Thomas R., B.A.	1888	Oxbow, N.W.T.
Scott, T. S., B.A., 1894; B.Sc.	1897	Niagara Falls.
Scott, Wm. J., M.D.	1891	Lanark.
Scott, William S., M.D.	1855	(Deceased.)
Scott, W. B., M.D.	1897	Crystal, N. Dak.
Scovill, Simmons S. S., M.D.	1877	Rat Portage.
Scribner, J. F., M.D.	1898	
Seager, James, M.D.	1894	Ottawa.
Sears, J., B.Sc.	1905	Kingston.
Searls, Abraham W., M.D.	1864	(Deceased.)
Seath, John, B.A., LL.D.	1902	Toronto.
Seaton, E. T., B.A.	1897	Caledonia.
*Sedgwick, Robert, D.D.	1878	(Deceased.)

Name.	Date of Graduation.	Address.
Sexsmith, M. E., B.A., 1903; LL.B.	1904	Centreton.
Sexton, J. H., M.A.	1902	Kemptville.
Shannon, Jno. R., B.A., '85; M.D.	1890	20 West 35th St., New York.
Shannon, Lewis W., B.A.	1877	Kingston.
Shannon, Robert W., B.A., 1875; M.A.	1880	Dawson City, Y.T.
Sharp, Helena A., B.A.	1905	Odessa.
*Sharp, John, M.A.	1892	New Liskeard.
Shaw, A., M.D.	1899	
Shaw, John M., B.A., 1883; M.D.	1886	Lansdowne.
Shaw, Lily, B.A.	1903	Kingston.
Shaw, Robert, B.A.	1873	(Deceased.)
Sheffield, E. B.A., 1900; M.D.	1903	Hospital for Insane, Staten Island.
Shenick, Adeline, B.Sc., B.A.	1891	(Deceased.)
*Sheraton, James P., D.D., (President, Wycliffe College)	1882	(Deceased.)
2, 19Shibley, G. R., M.A.	1901	Kingston.
6Shibley, Henry T., B.A.	1881	(Deceased.)
Shibley, Jennie M., (Cram) B.A.	1900	Cobden.
Shibley, Laura, B.A.	1890	All Hallows' School, Yale, B.C.
Shier, James, B.A.	1862	
Shirley, Joseph W., M.D.	1863	(Deceased.)
Shirreff, W. T., M.D.	1903	Isol. Hosp., Ottawa.
8, 11Shorey, Edm. C., B.A., '86; M.A., 1887; D.Sc.	1896	Honolulu, H.I.
Shorey, P. M., B.Sc.	1906	Oshawa.
5Shortell, D. H., M.A.	1898	Washburn.
4, 13, 22Shortt, Adam, (Professor, Queen's Univ.) B.A., 1883; M.A.	1884	Kingston.
*7, 17Shortt, J. S., B.A., '94; M.A.	1897	De Winton, Alta.
Shurie, Josiah S., B.A.	1889	
*Sieveright, James, B.A.	1855	Manitowaning.
Sieveright, James A., M.D.	1870	(Deceased.)
8Sills, Wm. R., M.A.	1895	Kingston.
Silver, L. P., B.Sc.	1902	
Simpson, B. L., B.A., 1903; M.A.	1904	Hamilton C. I.
Simpson, James, B.A.	1864	
Simpson, W. J., M.D.	1899	Lacombe, Alta.
Sinclair, Anna E., B.A.	1901	Norm'l School, Ottawa.
Sinclair, H. H., B.A.	1899	
4*Sinclair, John A., M.A.	1890	(Deceased.)
*Sinclair, Robert C. H., B.A.	1888	Fenelon Falls.
Singleton, A. H., B.A., 1901; M.D.	1904	Regina, Sask.

Name.	Date of Graduation.	Address.
Singleton, Jessie W., B.A.	1905	Kingston.
1, 2, 19Skelton, O., M.A.	1899	Chicago, Ill.
Skimin, Nellie St. G., M.D.	1892	Hamilton.
Skinner, Henry, M.D.	1862	(Deceased.)
Skinner, John S., B.A.	1883	Montreal.
9Slack, E. B., B.A.	1902	
Sloan, D., B.Sc.	1905	Three Forks, B.C.
Smart, V. I., B.A.	1898	
Smeeton, W. F., B.Sc.	1900	
Smellie, Donald McK., M.D.	1888	(Deceased.)
*Smellie, George, D.D.	1885	(Deceased.)
Smellie, James F., B.A.	1890	Ottawa.
Smirle, Harriette H., (Wilson) M.A.	1903	Winnipeg.
Smith, A. L., M.D.	1902	Kingston.
Smith, Alexander L., B.A.	1883	Alexandria.
Smith, Annie, B.A.	1894	Walkerville.
Smith, A. G., M.D.	1898	Deseronto.
Smith, B. A., M.D.	1905	Hartington, Ont.
Smith, D. T., M.D.	1901	Ottawa.
Smith, Elizabeth, (Shortt) M.D.	1884	Kingston.
Smith, Frederick B., M.D.	1886	Watertown, N.Y.
Smith, George, M.D.	1858	(Deceased.)
Smith, George H. W., M.D.	1892	Sydney, N.S.W.
Smith, Gordon J., B.A.	1886	Paris.
Smith, J. E., B.A.	1901	Burnbrae.
*Smith, James F., M.D.	1888	Bradford.
*Smith, James C., D.D., B.A., 1861; M.A., 1863; B.D.	1880	(Deceased.)
Smith, J. C., B.A.	1898	Kingston.
Smith, James H., B.A.	1903	Kuhryville.
Smith, James H., M.A.	1893	Ridgetown.
Smith, John R., M.D.	1863	(Deceased.)
Smith, N., M.D.	1904	Kingston.
Smith, Ralph G., M.D.	1893	Oakland, Iowa.
Smith, S. M., M.D.	1900	S. Milwaukee, Wis.
Smith, T. G., B.A.	1905	Smith's Falls.
Smith, Violet B., B.A.	1897	Stanstead, Que.
Smith, W. A., M.D.	1905	Kingston.
Smyth, Robert A., M.D.	1883	(Deceased.)
*Smyth, William J., B.A.	1881	(Deceased.)
Smythe, George H., B.A.	1897	Kingston.
Smyth, W. L., B.Sc.	1906	Pembroke.
*Snell, G. W., B.A.	1899	West Brome, Que.
3Snell, Joseph, M.A.	1890	Wiarton.
Snider, Elias T., M.D.	1889	Inwood.
Snider, Samuel H., M.D.	1881	Carman, Man.
Snook, Marcus S., B.A.	1881	(Deceased.)
Snowden, H. A., B.A.	1902	

Name.	Date of Graduation.	Address.
*Snowdon, John M., B.A.	1885	Ottawa.
Snyder, H. Adell, M.A.	1895	
Snyder, T., M.D.	1899	Niagara Falls, N.Y.
*Solandt, D. M., B.A., 1900; B.D., 1905; M.A.	1906	Kingston.
Solmes, Harriet M., B.A.	1906	Picton, Ont.
Somerville, Jas. A., B.A., 1858; M.D.	1866	(Deceased.)
*Somerville, James F., B.A.	1881	Toronto.
Spafford, H. W., M.D.	1855	(Deceased.)
24Spankie, Wm., B.A., '62; M.D.	1885	Wolfe Island.
Spankie, James E., M.D.	1891	Halycon Hot Springs, B.C.
Sparham, George S., M.D.	1859	(Deceased.)
Sparks, J. F., B.A., 1901; M.D.	1905	Kingston.
Sparks, W. F., B.A.	1903	
Spear, Hugh, M.D.	1873	Toronto.
9Speers, J. A., B.A., 1905; M.A.	1906	Alliston.
*Spence, Alexander, D.D.	1864	(Deceased.)
Spence, H. D. L., B.A.	1904	Kingston.
Spence, J. C., B.A.	1903	Ottawa.
Spencer, Henry, M.D.	1862	(Deceased.)
Spooner, Armon C., B.A., 1896; M.D.	1905	Latimer.
Spooner, George D., M.D.	1860	(Deceased.)
Spooner, Hiram R., M.D.	1869	(Deceased.)
Spooner, Margaret M., (Abbott) B.A.	1886	280 James Place, Brooklyn, N.Y.
Spotswood, W. A. J., M.D.	1903	Alexandria.
Sproat, Alexander, B.A.	1853	(Deceased.)
*Sproul, Nathaniel J., B.A.	1891	
Sproule, E. W., M.D.	1905	Peterson, Iowa.
Squire, George H., B.A.	1893	Kingston.
Squire, R. L., B.Sc.	1904	Kingston.
Squire, Wm. W., B.A., '54; M.A.	1864	(Deceased.)
Staley, A. A., M.D.	1903	Wolfe Island.
Stanley, Rt. Hon. Earl Derby, LL.D.	1889	England.
Stanley, J. N., M.A.	1901	Port Colborne.
11Stead, J. H., M.A.	1906	Lyn, Ont.
29Staples, Louis, M.A.	1895	Kingston.
*Steele, Jacob, B.A., 1883; B.D.	1889	Callander.
Stevens, F. G., B.Sc., 1900; M.E.	1901	Mining Supt., Guanajuata Cons. Mining & Milling Co., Guanajuata, Mexico.
Stevens, Nathaniel T., M.D.	1892	Clifton, Ill.
Stevenson, Alexander J., B.A.	1882	Minden.
Stevenson, John A., M.D.	1894	Chicago.

Name.	Date of Graduation.	Address.
*Stevenson, John F., D.D.	1880	(Deceased.)
Stevenson, R. M., B.A.	1905	Ridgetown.
Stewart, Alexander, M.D.	1889	(Deceased.)
Stewart, Alexander J., M.D.	1869	
Stewart, Daniel W., B.A.	1884	Renfrew.
Stewart, Ernest J., B.A.	1896	
Stewart, Flora Belle, B.A.	1898	Harrowsmith.
Stewart, George G., M.D.	1895	Camrose, Alta.
6Stewart, James, M.D.	1894	(Deceased.)
8Stewart, James A., M.A.	1892	
Stewart, John M., M.A.	1882	Chesley.
Stewart, J. R., B.A.	1904	Waba.
Stewart, Margaret J., B.A. (McNab)	1902	Douglas.
Stewart, Martha G., B.A.	1902	Laguerre, Que.
3Stewart, William, B.A.	1879	Toronto.
Stewart, A. E., M.D.	1898	Chicago, Ill.
Stilwell. A. J., B.Sc.	1902	
Stirling, James A., M.D.	1885	St. Thomas.
Stirling, John E., M.D.	1884	
Storms, Douglas G., M.D.	1886	Hamilton.
34Story, Selina G., M.A.	1901	Aylmer H. S.
Stothers, Minerva E., B.A.	1906	Ottawa.
Stothers, R., B.A.	1899	Ottawa.
Stowell, Olmsby O., M.D.	1869	
Strathcona, Earl, LL.D.	1905	London, Eng.
Strachan, B. O., B.Sc.	1905	Chapleau, Ont.
*Strachan, Daniel, B.A.	1889	Brockville.
Strange, John, B.A., 1877; LL.B.	1883	Kingston.
Stratton, C. M., M.D.	1902	Napanee.
Struthers, W. E., B.A.	1905	Lanark.
*Stuart, James G., B.A.	1876	London.
Stuart, Irwin, B.A.	1870	(Deceased.)
Stuart, Wm. A., B.A., 1888; M.D.	1891	Clarenceville, Que.
Stubbs, S. J., B.A.	1899	Smith's Falls H. S.
*Sturgeon, Robert J., B.A.	1887	Burk's Falls.
Sullivan, D. V., B.A., 1890; M.D.	1892	(Deceased.)
Sullivan, J. F., B.A.	1904	Ottawa.
Sullivan, Hon. Michael, (Prof., Queen's Univ.) M.D.	1858	Kingston.
Sullivan, Thomas, M.D.	1863	(Deceased.)
Sullivan, William, B.A.	1862	Kingston.
Sully, L. K., B.A.	1906	Ottawa.
Supple, J. A., B.A.	1899	Pembroke.
Sutherland, Bruce, M.D.	1906	Kingston.
Sutherland, E., B.Sc.	1902	Belleville.
Sutherland, J. C., B.A.	1901	Richmond, Que.
Sutherland, Robert, B.A.	1852	(Deceased.)
7Swanson, W. W., M.A.	1905	Chicago, Ill.
Sweetland, John, M.D.	1858	Ottawa.

Name.	Date of Graduation.	Address.
Switzer, Wilson I., M.D.	1862	(Deceased.)
Symmes, C. R., M.D.	1903	Aylmer, Que.
*Symonds, H., D.D.	1901	Montreal.
Symington, Thomas J., M.D.	1881	Camlachie.
Tandy, H., B.A., 1900; M.D.	1904	Kingston.
Tandy, W. R., M.A.	1899	Kingston.
Tarbell, Horace S., B.A.	1862	
Tassie, William, LL.D.	1871	(Deceased.)
Taylor, James, M.D.	1864	(Deceased.)
Taylor, John A., B.A.	1892	Dutton H. S.
Taylor, Mabel A., B.A.	1903	Hamilton.
Taylor, William F., M.D.	1881	Brisbane, Queensland.
Teepel, Etson W., M.D.	1896	(Deceased.)
Tennent, R. W., M.D.	1905	Belleville.
3, (*b*) Teskey, Kathleen, B. A., 1903; M.A.	1904	Kincardine.
Theal, George McC., LL.D.	1895	Cape Town, Africa.
Thibaudeau, P. H., B.A.	1903	I.P.S., Lacombe Dist.
Thibodo, Augustus J., B.A., '51; M.A.	1854	Niagara Falls, N. Y.
Thibodo, Francis H., M.D.	1895	
Thibodo, Oliver, M.D.	1857	Los Angeles, Cal.
Thibodo, Robert, B.A., '62; M.D.	1862	(Deceased.)
Thibodo, Wm. B., B.A., '62; M.A.	1865	Rat Portage.
Thirkell, William G., M.D.	1861	Sodus, N. Y.
Thompson, A. M., M.A.	1902	Brockville.
Thompson, A. Y., B.A.	1903	Strathroy.
Thompson, E. J., M.D.	1901	Kingston.
Thompson, Edna G., B.A.	1903	Kingston.
*Thompson, George, B.A.	1863	Scotland.
*Thompson, George M., B.A.	1878	Glasgow, Scotland.
Thompson, Hiram B., M.D.	1888	Barrie.
Thompson, John, B.A.	1855	(Deceased.)
*Thompson, John R., B.A., 1865; M.A.	1868	(Deceased.)
Thompson, Lottie, B.A.	1903	Picton.
Thompson, Maggie J., B.A.	1894	Almonte.
Thompson, P. M., M.A.	1899	Chatham.
*Thompson, Thomas J., M.A.	1895	
Thompson, William B, M.D.	1892	Brooklyn, N. Y.
Thompson, William McC., B.A.	1888	Dunbar, N. S.
Thomson, J. P., F.R.S.G.S., LL.D.	1903	Brisbane, Australia.
Thorburn, John, LL.D.	1880	Ottawa.
Thorne, Stephen H., M.D.	1887	Bobcaygeon.
Thorne, James, B.A.	1897	Ottawa.
Thornton, L. A., B.A., B.Sc.	1906	Peterboro, Ont.
Thornton, Thomas H., M.D.	1870	Consecon.
Thornton, William H., M.D.	1864	(Deceased.)

Name.	Date of Graduation.	Address.
Tilman, Herbert A., M.D.	1895	Kingston, Jamaica.
Tilman, Harry G., M.D.	1889	Racecourse P.O., Vere, Jamaica.
Timm, W. B., B.Sc.	1906	Westmeath.
Tinkess, A. L., M.D.	1898	Plessis, N. Y.
Tod, A. S., B.A.	1906	Maguire, Ont.
Todd, Alpheus, C.M.G., LL.D.	1881	(Deceased.)
Todd, Samuel G., M.D.	1890	Meshawaka, Ind.
Tompkins, Louise H., B.A.	1904	Brockville.
Townsend, Harland W., B.A.	1887	(Deceased.)
Tracey, Robert, M.D.	1862	Belleville.
Tracey, Thomas B., M.D.	1865	(Deceased.)
*Trotter, Thomas, (President of Acadia University) D.D.	1903	Wolfville, N. S.
Trousdale, James D., M.D.	1860	(Deceased.)
Truscott, S. A., M.A.	1904	Sydenham.
Tudhope, M. B., B.A.	1897	Orillia.
Turnbull, Agnes M., (Medical Missionary) M.D.	1892	Indore, India.
*4Turnbull, James H., M.A.	1896	Ottawa.
Turnbull, John, M.D.	1905	Lowville.
Turner, John B., B.A.	1889	Hamilton.
Turner, Adelaide, M.D.	1897	New York.
Tuttle, Henry E., M.D.	1892	Chases' Mills, N. Y.
Tuttle, Leslie, M.D.	1875	Tweed.
Tyner, W. G., B.A., 1898; M.D.	1901	Norfolk, Va.
7Uglow, W. L., B.A., 1905; M.A.	1906	Kingston.
*Ure, Robert, D.D.	1876	(Deceased.)
116Usher, W. C., M.A.	1906	Wicklow.
Valleau, Archibald J., M.D.	1891	Wolcott, Vt.
Valleau, George Z., M.D.	1867	
Van Allen, John R., M.D.	1871	(Deceased.)
Van Dusen, E. M., B.A.	1906	Far Rockaway, L.I.
Van Ness, C. S., M.D.	1904	Wolfe Island.
Van Vlack, Gilbert J., M.D.	1869	(Deceased.)
Vaux, M. Lillian, (MacKinnon) M.A.	1903	Halifax, N.S.
Vercoe, F. H., B.A.	1900	
Voaden, A., B.A.	1906	St. Thomas.
11a, 14Voaden, J., M.A.	1903	Niagara Falls.
Volume, D. A., B.A.	1898	Rose Bank, Man.
Waddell, W. H., M.D.	1880	North Augusta.
Wade, Robert J., M.D.	1888	Brighton.
Wade, Wm. R., M.D.	1888	(Deceased.)
Wafer, Francis M., M.D.	1867	(Deceased.)
Wagar, C. M., M.D.	1905	Enterprise.
Wager, Ephraim N., M.D.	1897	Hayburn.
Waldren, H. M., M.D.	1898	Dayton, N. Dak.
Walkem, Wm. W., M.D.	1873	Creston, B.C.

Name.	Date of Graduation.	Address.
Walkem, R. K., B.A.	1902	Vancouver, B.C.
Walker, Allen H., M.D.	1867	Toronto.
Walker, Andrew, B.A.	1901	
Walker, Archibald D., M.D.	1888	Riverside, Cal.
Walker, C. Wesley, B.A.	1902	(Deceased.)
Walker, H., M.D.	1897	Riverside, Cal.
Walker, Hattie A., M.D.	1890	(Deceased.)
Walker, H., B.A., 1902; B.Sc.	1904	Cornwall.
*Walker, James, B.A.	1894	
Walker, Stanley, M.D.	1889	Chebanse, Ill.
14, 9Walker, Thomas L., (Prof., Univ. of Toronto) M.A.	1890	Toronto.
*Walkinshaw, Wm., B.A., 1898; M.D.	1893	Stillwell, Ind.
Walks, R. H., B.A.	1900	Lindsay.
*Wallace, Alexander, B.A.	1847	(Deceased.)
Wallace, David, M.D.	1881	Metcalfe, Ont.
17Wallace, H. T., B.D.	1906	Hamilton.
*2, 6, 17Wallace, James, M.A., '98; B.D.	1901	Lindsay.
Wallace, O. S. C., (Chancellor of McMaster Univ.) LL.D.	1903	Toronto.
Wallbridge, Asa F., B.A.	1854	Newcastle.
Ward, G. C. Tremaine, M.D.	1879	Napanee.
Ward, G. H., M.D.	1903	Napanee.
Ward, Henry, B.A.	1905	
Ward, W., B.A.	1903	U. C. Coll., Toronto.
Wardlaw, James S., M.D.	1888	Galt.
*Wardrope, Thomas, D.D.	1878	Guelph.
Warner, Albert F., M.D.	1887	Toronto.
Warren, F. R. H., B.A., 1900; M.D.	1905	Balderson.
Warren, J. W., M.D.	1905	Leeds, N. Dak.
Warren, L. A. H., M.A.	1902	Balderson.
Wartman, Philander G., M.D.	1864	(Deceased.)
Waters, John F., B.A.	1884	Dept. of Sec'y of State, Ottawa.
Watson, Alice R., B.A.	1902	Kingston.
Watson, Andrew, B.A.	1861	
Watson, Charles V., M.D.	1863	
*Watson, David, B.A., 1850; M. A., 1852; D.D.	1886	Beaverton.
Watson, Donald, B.A.	1851	(Deceased.)
Watson, E. C., M.A., 1895; M.D.	1899	Detroit.
Watson, G. A., B.A.	1904	Toronto.
*Watson, James S., B.A.	1895	Minnedosa.
*Watson, Peter, B.A.	1852	(Deceased.)
Watt, W. J., B.A.	1905	Walkerton.
Watts, Ezra J., M.D.	1886	

Name.	Date of Graduation.	Address.
*Watts, J. R., B.A., 1901; B.D..	1904	Scotch Block, Ont.
Watts, Thomas E., M.D..	1890	Natural Bridge, N.Y.
Way, Hon. Samuel J., (Lieut.-Gov. and Chief Justice, South Australia) LL.D..	1895	Adelaide, South Aus.
Way, W. C., B.Sc., 1905; M.Sc..	1906	Lindsay.
Weatherhead, G. F., B.A., 1898; M.D..	1903	
Webster, A. R., B.Sc..	1904	Can. Gen. Elec. Co., Peterboro.
Webster, B. E., B.A., 1895; M.D.	1896	Kingston.
Webster, Charles R., B.A..	1891	Kingston.
Webster, James, B.A..	1857	(Deceased.)
Webster, George R., B.A..	1875	(Deceased.)
Webster, W. J., M.D..	1884	
Weekes, W. J., M.D..	1865	Ottawa.
Weese, Willametta	1903	Pembrooke.
Weir, Janet, M.D..	1891	Merrickville.
Weir, William, M.D..	1861	(Deceased.)
11, (*b*) Wells, E. J., B.A..	1903	(Deceased.)
Wells, James Walter, B.Sc.. ...	1898	Belleville.
Wellwood, J. A., B.A., 1901; M.D	1903	Eden, Man.
Westlake, Henry W., B.A.. ..	1882	
Wheeler, James W., M.D..	1892	Cornwall.
White, Albert N., M.D..	1885	Denver, Col.
White, James W., M.D..	1891	Chicago, Ill.
White, Joseph F., B.A..	1877	Shanty Bay, Ont.
White, Lizzie R. (Leslie), B.A..	1895	Kingston.
Whiting, C. C., M.A., 1902; B.D.	1905	Penticton, B.C.
Whitney, Arthur W., M.D.. ...	1888	St. Paul, Minn.
Whitney, J. P., M.P.P., LL.D.,	1903	Prescott.
*Whiteman, Richard, B.A..	1886	Duncans, B.C.
Whitteker, Walter C., M.D... ..	1895	Avonmore.
Whyte, William M., B.A..	1896	Pakenham.
Wight, L. S., B.A..	1901	
Wilgar, W. P., B.Sc..	1903	Engineer, Transcontinental Ry. Survey.
*Wilkie, William D., B.A..	1891	Needham, Mass.
Wilkinson, A. T., B.A..	1904	Pincher Creek, Alta.
Williams, E. J. F., B.A., 1903; M.D..	1904	Brockville.
Williams, Herbert S., M.D.. ...	1884	Vernon, B.C.
Williams, Hugh G., M.D..	1894	
Williams, H. Sophia, B.A..	1899	(Deceased.)
Williams, L. J., B.A.....	1906	Watford.
Williams, Mary I., B.A..	1904	St. Thomas.
Williams, W. H., M.A..	1903	Berlin, Ont.

Name.	Date of Graduation.	Address.
Williamson, A. R. B., B.A., 1895; M.A., 1896; M.D.	1899	Kingston.
Williamson, E. J., B.A., '98; M.A.	1900	
Williamson, Florence, B.A.	1905	Kingston.
Williamson, G. H., B.A.	1899	Kingston.
Williamson, H. J., B.A., 1901; M.D.	1905	
*Wills, Michael, LL.D.	1861	(Deceased.)
Wilmer, G. H., B.A.	1898	Rockspring.
Wilson, Annie J., B.A.	1904	Carp.
Wilson, Arthur C., M.D.	1891	Perth.
Wilson, Caroline L. M., B.A.	1890	Fleming, Assa.
Wilson, Charles J. C., M.D.	1869	Montreal.
1Wilson, Harry L., (Prof., John Hopkins University) B.A., 1887; M.A., 1888; LL.D.	1903	Baltimore, Md.
Wilson, Jessie A., B.A.	1902	Gananoque.
Wilson, John A., M.D.	1863	(Deceased.)
Wilson, J. H., B.A.	1900	Smith's Falls.
Wilson, J. L., B.A.	1901	
*Wilson, Matthew H., B.A.	1894	Mountain.
6Wilson, R. A., B.A., 1901; M.A., 1902; Ph. D.	1906	Renfrew.
Wilson, Thomas, B.A., '77; M.D.	1880	Tara.
Wilson, T. A., M.D.	1900	Port Essington, B.C.
*Wilson, T. R., B.A.	1897	Marathon.
Wilson, W. A., B.A.	1897	Rat Portage H. S.
2Windel, Henry C., M.A., 1896; M.D.	1902	Pontypool.
Witheril, E. R., B.A.	1899	Williamstown.
Wood, H. S., B.A.	1905	Peterborough.
9Wood, Isaac, (Prof., Queen's Univ.) B.A., 1884; M.A., 1891; M.D.	1892	Kingston.
Woodruff, G. A., M.D.	1902	
*Woods, I. H., B.A.	1903	London Junction.
Woods, S. A., B.A.	1898	Metcalfe.
Workman, C. W., B.Sc.	1903	Centre Star Mine, Rossland, B.C.
Workman, H. C., B.A.	1906	Kingston.
Workman, J. K., B.Sc.	1904	Kingston.
Workman, W., M.D.	1903	Kingston.
Wormwith, N. B., M.A.	1905	Kingston.
Wright, A., B.Sc.	1905	Brockville.
Wright, E. A., B.A.	1902	Renfrew.
Wright, Edward W., M.D.	1886	
Wright, H. Mabel, B.A.	1901	Toronto.
*Wright, John J., B.A.	1885	Peterboro.
Wright, Josephine, B.A.	1892	

Name.	Date of Graduation.	Address.
Wright, R. Ramsay, LL.D.....	1903	Toronto.
Wright, Thomas A., M.D..	1888	Russell Man.
Wylie, James, B.A..	1864	(Deceased.)
Yates, Horatio, M.D..	1863	(Deceased.)
Yates, Octavius, M.D..	1856	(Deceased.)
Yates, Daintry B., B.A...	1898	335 East Ave., Rochester, N.Y.
*Yeomans, Geo. A., B.A..	1863	Sutton West, Ont.
Yeomans, Horace P., B.A., '60; M.D..	1863	(Deceased.)
Young, Alexander, B.A..	1895	Blakeney.
*Young, Colin G., B.A..	1893	Prince Albert, N.W.T.
Young, Daniel, M.D..	1862	Adolphustown.
Young, David, M.D..	1871	Lower Fort Garry, Man.
Young, Frederick M., B.A., Judge	1886	Atlin, B.C.
Young, George P., LL.D..	1882	(Deceased.)
Young, Henry E., B.A..	1883	Chicago.
*Young, John, B.A., 1882; M.A.	1884	Hamilton.
Young, J. M., B.A., 1902; M.D..	1904	New Liskeard.
Young, M. R., B.A., 1897; M.D.	1901	Millsville, N. S.
*Young, Robert, B.A..	1890	Pakenham.
Young, Ward, B.A., 1896; M.D.	1898	
Young, Sir Wm., Chief Justice, LL.D..	1881	(Deceased.)
Young, William A., M.D..	1894	Westfield, Vt.
Young, William J., M.D..	1883	(Deceased.)
Youngson, Mary, B.A..	1898	Kingston.
Yourex, John McGill, M.D.... ..	1876	Lonsdale.
Zwicker, F. G., M.D..	1903	Halifax, N.S.

ALUMNI.

The Registrar will be much obliged for notice of additions or corrections to this list.

Name.	Date of First Registration.	Address.
Abrey, James	1893	Toronto.
Alexander, W. A.	1893	Bishop's Mills.
Allen, Andrew	1884	Balderson's Corners.
*Allen, William F.	1882	Denver, Col.
Allen, Mary (Menzies)	1890	Beachburg.
*Andrew, Joseph	1879	Margaret, Man.
Argue, Andrew W.	1888	Stittsville.
Back, W. G.	1891	Vaughan.
*Bailie, Robert	1889	(Deceased.)
Bain, W. J.	1893	Elora.
Bain, Wm. R.	1858	Montreal.
Baker, W. R.	1894	Newburgh.
*Ball, William Macpherson S.	1842	(Deceased.)
Barker, John	1897	Somerbury, Assa.
*Barr, John	1857	(Deceased.)
Barr, Isabel (McPherson)	1890	Indianapolis.
Bamford, Frederick J.	1876	Winnipeg.
Bawden, J. R.	1855	Kingston.
Bell, J. W.	1893	Kingston.
Bell P. M.	1894	Westbrook.
*Bennett, James, B.A.	1881	(Deceased.)
Bennett, Margaret	1896	Omemee.
Bently, Carrie L., (Scott)	1889	Toronto.
Bertram, Thomas	1880	Dundas.
*Best, D. W.	1889	Beaverton.
Bethune, Alexander	1886	London.
Bethune, James, K.C.	1856	(Deceased.)
Bethune, William S.	1879	Wingham.
Birch, Ada L.	1895	Kingston.
*Black, William, B.A.	1889	Arkansas.
Blane, William	1898	Renfrew.
Booth, Jackson C.	1882	Ottawa.
Booth, John F.	1883	Ottawa.
*Borthwick, H. J.	1855	Morden, Man.
Boyle, Thomas	1884	Gananoque.
Bradbury, Emily	1892	Gananoque.
Bradley, J.	1896	Peterboro.
Bristol, Emily F.	1886	Napanee.
Brown, P. W.	1896	Kingston.
Brownell, James E.	1877	Avonmore.
Bruce, David A. J.	1886	
Bruce, Edward W.	1886	Toronto.
Burger, Charles M.	1886	Hudson, Que.
Burrows, Annie M.	1889	Kingston.

Name.	Date First Registration.	Address.
Burt, Ellen A. A.	1890	Caldwell.
Bute, J. H.	1894	Houston, Texas.
Byers, D. R.	1895	Gananoque.
*Byers, Henry	1848	(Deceased.)
Callaghan, Etta	1888	Kingston.
Calvin, H. A.	1868	Garden Island.
*Camelon, David	1853	(Deceased.)
Camelon, John M.	1885	Chicago.
Cameron, Colin, K. O.	1889	Iroquois.
Cameron, Donald	1888	(Deceased.)
Cameron, A. H., B.A.	1869	Napinka, Man.
Cameron, John S.	1889	Wellington.
*Cameron, Hugh.	1856	(Deceased.)
*Cameron, J. J., M.A.	1871	
*Campbell, Charles A.	1887	Lakefield.
Campbell, John R.	1879	Wingham.
Campbell, Margaret A.	1895	Smith's Falls.
Cannon, J. D.	1894	Kingston.
Carey, M.	1893	Gananoque.
Cargill, Henry	1856	(Deceased.)
*Carmichael, James, B.A.	1858	(Deceased.)
Carr-Harris, D.	1893	Kingston.
Carr-Harris, Mary A (Gunn)	1893	Cairo, Egypt.
Carr-Harris, R. R.	1896	Kingston.
Carson, Joseph T.	1891	(Deceased.)
Cartwright, C.	1894	Kingston.
Cartwright, Madeline L. (Matheson)	1889	
Caswell, W. G.	1896	Carleton Place.
Chambers, John N.	1875	Woodstock.
*Chambers, W. W.	1871	Erzeroum, Turkey.
Chisholm, G. W.	1895	Thamesford.
Chown, Susie	1894	Lucan.
Chown, Daisy.	1898	Kingston.
Clapp, David P.	1873	Harrison.
Clarke, H. J.	1893	Belleville.
Clothier, James O.	1890	Kemptville.
Clow, C. N.	1895	Lyn.
Clune, Ella.	1889	Warkworth.
Coleman, W. W.	1886	Seeley's Bay.
Cook, Florence (Horsey)	1893	Shanghai.
Cook, William.	1858	Quebec.
Conklin, J. D.	1894	Winnipeg.
*Connery, D. G. S., M.A.	1890	Toronto.
Cooper, E. G.	1894	Lanark.
Corbett, Charles H.	1865	Kingston.
Cotton, M. P.	1895	Ottawa.
*Crawford, Angus	1869	
Creeggan, Alfred H.	1889	Kingston.
*Currie, E. C.	1890	Sarnia.

Name.	Date of First Registration.	Address.
Currie, P. W.	1895	Desbarats.
Curtis, Henry H.	1887	Montreal.
Dargavel, R. B.	1895	Newboro.
Day, Ila B.	1898	Harrowsmith.
Day, Lewis J.	1892	Cataraqui.
Devitt, H.	1895	Easton's Corners.
Dickson, Edwin H.	1867	Waco, Texas.
Dix, O. J.	1895	Kingston.
*Dodds, James A.	1886	Yacatecas, Mex.
*Doudiet, C. A.	1866	Montreal.
Douglas, John J.	1881	
*Dow, James.	1882	
Draffin, Isabel	1895	Ottawa.
Dresser, John A.	1889	Richmond, Que.
Drinnan, John K.	1887	Medicine Hat, Assa.
Drummond, Robert J.	1855	Perth.
Duff, John M.	1875	Guelph.
Duff, John	1850	(Deceased.)
*Dunning, Harry N.	1883	Watertown, N.Y.
Ellicott, T. W. H.	1896	Montreal.
Elliott, E. G.	1895	Kingston.
Elmore, Minor M.	1875	(Deceased.)
Emmons, John	1887	Shannonville.
*England, Luther M.	1890	
Farnden, Hunter R.	1842	
Farrell, Jennie (Dyde)	1883	Kingston.
Fenwick, Effie L.	1898	Ottawa.
Fenwick, Chrissie.	1898	Kingston.
Ferguson, A.	1895	Williamstown.
*Ferguson, John, B.A.	1858	Maple Valley, Man.
Flanigan, John	1858	Chicago.
Foik, H. J.	1897	Gananoque.
Folger, Marion	1884	(Deceased.)
*Forest, David.	1879	Walton, Ont.
Fowler, Catherine G.	1893	Kingston.
*Fraser, John	1888	Indian Brook, St. Ann's, N.S.
Fraser, Marion	1894	L'Orignal.
Fraser, Nutting S.	1881	St. John's, Nfld.
Fraser, R. A.	1894	L'Orignal.
Fraser, Francis H.	1883	(Deceased.)
Gahan, Percy A.	1886	Windfall.
Galbraith, Malcolm C.	1853	Bowmanville.
*Gallup, E. C.	1888	Mohawk.
*Gandier, Joseph.	1866	Newburgh.
Garret, William R.	1884	
*Gerrior, John P.	1884	
Gibson, Arthur	1897	Kingston.
Gibson, Sara	1888	Belleville.

Name.	Date of First Registration.	Address.
Gillies, John A.	1889	Braeside.
Girvin, H.	1896	Kingston.
Goodfellow, Joseph	1891	Parham.
*Goodwill, John	1858	(Deceased.)
Goodwin, Antoinette E.	1884	Studley, Halifax.
Goodwin, Ernest P.	1884	Cape Tormentine, N.B
Gordon, Robert A.	1882	
Gordon, W. B.	1893	Kingsford.
Gowan, T.	1894	Kingston.
Graham, R. S.	1894	Elginburg.
*Grant, H. R.	1889	Rossland, B. C.
Graves, F. M.	1894	Kingston.
*Gray, James M.	1861	Selkirk, Man.
Greaves, Jennie H.	1880	Kingston.
Grenfell, Marion M.	1898	Arnprior.
Griffith, M. A.	1893	Balder, Man.
Hallett, William J.	1890	Barrie.
Hamilton, Clark.	1848	Kingston.
Hamilton, John, Judge.	1844	Milton.
Hamilton, Max G.	1882	Hudson Bay Co.
Hamilton, William.	1858	(Deceased.)
Harkness, Jefferson D.	1888	Kingston.
Head, John	1884	(Deceased.)
Heal, G. E.	1896	St. John's, Nfld.
Henderson, M.	1895	Sooke, B.C.
Hendry, Thomas	1868	California.
*Herald, Charles L.	1880	Chicago.
Hill, Annie G.	1890	Riviere du Loup.
Hobart, S. W.	1879	Toronto.
Hodgins, James C.	1889	Toronto.
Hooper, John G.	1879	Teeswater.
Hooper, Vere G.	1880	(Deceased.)
Honeywell, Ira E.	1890	Ottawa.
Houston, Martha (Campbell)	1889	Kingston.
Houston, Robert C.	1890	Toronto.
Hutton, Maude	1893	Barriefield.
*Hyland, David	1881	(Deceased.)
Ireland, Alexander H.	1866	Toronto.
Ireland, James O.	1850	Toronto.
Ireland, William.	1850	Chatham.
Irvine, Richard W.	1878	Deseronto.
Irving, Lilla B. (Farrell)	1884	Utica, N.Y.
*Jack, Hugh.	1889	
Jackson, Alfred R.	1889	S. Vancouver, B.C.
Jackson, Nelson.	1883	
Johnston, Ethel L.	1896	Kingston.
Johnston, William.	1878	McLeod, N.W.T.
Jones, Alfred W.	1888	Kingston.
Jones, Charles P.	1887	Kingston.

Name.	Date of First Registration.	Address.
Kean, Isabel H.	1890	Orillia.
*Kellock, David.	1878	Kinnear's Mills.
Kemp, John W.	1888	Carp.
King, Mary A. (Marquis)	1888	Saratoga Spr'gs, N.Y.
Kingsbury, H. C. W.	1896	Roseham, P.Q.
Kingston, E. A.	1894	Picton.
Kirkpatrick, Kathleen	1897	Kingston.
Kirkwood, Daniel H.	1883	
*Laing, Douglass	1899	Kingston.
*Lamont, Hugh, D.D.	1861	(Deceased.)
Lane, Morgan.	1863	Clayton, Ont.
Lapsley, N. T. R.	1893	Toronto.
Larmer, Elizabeth E.	1895	Millbrook.
*Legere, Prosper L.	1856	(Deceased.)
Lingwood, F. H.	1895	Lakefield.
Lindsay, Ethel M.	1893	Kingston.
Lochead, H. S.	1893	Centreville.
Mabee, G. E.	1896	Port Hope.
*Madill, James C.	1889	Balmoral, Man.
Magee, R. W.	1898	Fort William.
Malloy, William.	1865	
Malone, Vida	1898	Toronto.
Maudson, W. H.	1894	Kingston.
Maxwell, John.	1887	Alton.
Meade, H.	1895	Nassagaweya.
Menzies, A. D.	1888	Beachburg.
Metcalfe, H. H.	1893	Kingston.
*Miller, David.	1884	Winkley, Man.
Miller, Margaret D.	1895	Keene.
Milliken, J. B.	1894	Springbank.
Mills, James McV.	1884	Elsinore.
Minnes, James A.	1885	Kingston.
Minnes, Ethel G.	1895	Kingston.
Mohr, F. C.	1895	Arnprior.
Moodie, R. T.	1893	Perth.
Moir, Robert	1878	
Moore, J. L.	1896	Toronto.
Motherill, James W.	1873	(Deceased.)
Morton, Thomas P.	1890	Ottawa.
*Muckleston, W. J.	1864	Perth.
*Mullin, Elias.	1861	Toronto.
*Mullan, J. B.	1856	Fergus.
*Mullan, J. S.	1854	Stanley, N.B.
Mulock, William R.	1865	Winnipeg.
Munro, Donald G.	1880	Winnipeg, Man.
*Munro, G.	1895	Blythewood, Ont.
Murray, Elizabeth C., (Turnbull)	1896	Ottawa.
Murray, Thomas N.	1890	Coshocton, Ohio.
Macallister, Lachlin, M.D.	1861	Duntroon.

Name.	Date of First Registration.	Address.
Macdonald, H. J.	1865	Winnipeg.
Macnee, Walter H.	1879	Kingston.
McArthur, Bessie.	1888	Kingston.
McArthur, Charles.	1879	
*McArthur, Dugald O.	1890	Melrose.
McArthur, John M.	1878	Fruitvale, Cal.
Macaulay, J.	1895	Montreal.
McCaig, J.	1894	Prescott.
McConnell, Jennie M.	1898	Dresden.
McConville, Jane.	1895	Kingston.
McDonnell, Allen.	1885	
*McDonald, Donald D.	1885	Keene.
McDonald, Duncan.	1898	Admaston.
McDonald, P. D.	1896	Ottawa.
McDougall, Archibald J.	1891	Newburgh, N.Y.
McDonald, Belle, (Boyd)	1890	Kingston.
McDonald, William.		(Deceased.)
*McEachern, Charles	1873	Inverness, Scotland.
McEachern, Duncan.	1860	Sault Ste. Marie.
McEwen, Thomas.	1883	
*McFayden, Allen L., B.A.	1887	Chester.
McGeach, William, M.D.	1861	Fingal.
*McGillivray, Alexander	1871	Toronto.
McGregor, Alexander.	1862	Williamstown.
McGregor, A. A.	1896	Williamstown.
McIntosh, Hugh.	1876	
McIntyre Andrew B.	1887	(Deceased.)
McIntyre, A. B.	1891	
*McIntyre, C. E.	1863	Oshawa.
McKay, Daniel C.	1889	Kingston.
*McKay, Norman T. C.	1883	Toronto.
McKenzie, John J.		
McKenty, D.	1894	Gretna, Man.
McKerracher, Mary.	1896	Ottawa.
*McKinnon, John.	1842	(Deceased.)
*McLarin, Archibald.	1878	Springfield, Man.
McLean, Archibald B.	1865	Smith's Falls.
McLean, A. E.	1895	Williamstown.
McLean, A. L.	1895	Berwick.
McLean, Donald A.	1877	
McLean, John.	1874	(Deceased.)
McLennan, Duncan L.	1887	Kincardine.
Maclennan, John D.	1889	(Deceased.)
McLennan, Neil K.	1888	Middle River, C.B.
*McLeod, Alexander K.		Brighton.
McLeod, Charles L.	1889	
McLeod, Janey A.	1894	Kingston.
*McMillan, George, B.A.	1875	Kentville, N.S.
McNab, Frank.	1880	Kingston.

Name.	Date of First Registration.	Address.
McNaughton, Alexander	1888	Manitoba.
McNaughton, Alexander K.	1887	Marcellus, N.Y.
*McNeil, John	1880	Cowal.
McNutt, George A.	1878	
McPherson, E. A.	1896	Prescott.
*McPherson, Lachlin	1842	(Deceased.)
MacRae, F. A.	1894	Big Baddeck, C.B.
McRae, J. F.	1893	Glen Robertson.
McRae, Philip K.	1888	North River, C.B.
McRossie, Allen	1880	New York.
McRossie, Hattie (McCammon).	1887	
Nelson, John	1887	Bearbrook.
Nichol, C. O.	1895	Binbrook.
O'Connor, Edward J.	1888	Ottawa.
O'Connor, W. J.	1894	Deseronto.
O'Donnell, E. J.	1893	Kingston.
Oronhyatekha, W. A. H.	1888	Toronto.
Osborne, N. A.	1897	Waterville, N.S.
Ovens, Rufus K.	1879	Wilton.
Paine, Charles C.	1889	
Park, R.	1894	Goderich.
Patterson.	1897	Stella.
*Paul, James T.	1842	(Deceased.)
Penman, A. G.	1902	Penman & Sprang, Toronto.
*Percival, Herbert A.	1886	Mishawakena, Ind.
Pollock, John R.	1877	(Deceased.)
Pooke, Margaret E.	1896	Perth.
*Porteous, George	1854	(Deceased.)
Potter, J. S.	1894	Kingston.
Powell, G. L.	1894	Sutton West.
Pratt, Abraham A.	1879	
Purdy, Mary E. F.	1886	
Quincey, J. A.	1898	Thornby.
*Rattee, Edward J., B.A.	1890	Noel, N.S.
Read, G. E.	1896	Rock Island, Que.
Renton, Lucinda J.		Kingston.
Renton, Thomas T.	1879	Kingston.
Reynolds, Annie F.	1894	Gananoque.
Reynolds, Mary E.	1894	Gananoque.
Richards, Salt.	1883	
Richardson, John.	1891	Brockville.
Riddell, Alexander F.	1867	Montreal.
Rielly, F. V.	1898	Sydenham.
*Robertson, John.	1884	Hopewell, N.S.
Robertson, John D.	1859	Tarrawonga, Vic.
Roddick, James A.	1887	Lyndhurst.
Rose, Constance B.	1892	Ottawa.
*Rose, G. W.	1889	Warsaw.

Name.	Date of First Registration.	Address.
Ross, Irvine	1866	(Deceased.)
*Ross, Archibald	1872	New York.
*Ross, Donald	1853	Seattle.
*Ross, Hugh	1884	
Ross, K. J. Livingstone	1879	Seattle.
Ross, Thomas B.	1886	Montreal.
Roland, John S.	1889	Toronto.
Rowland, J.	1898	Montreal.
Roy, Henry	1880	Chisholm, P.E.I.
Ruttan, A. C.	1895	Kingston.
Scammell, Gertrude	1895	Joyceville.
Scott, T. K.	1897	Iron Bridge, Algoma.
Shanks, William J.	1879	Chicago.
Sherlock, John M.	1879	Toronto.
Shirreff, Robert M.	1893	Fitzroy Harbour.
Shurtleff, M.	1895	Glenburnie.
*Shore, Godfrey	1881	(Deceased.)
Simpson, Hugh	1897	Orono.
Simpson, W. H. S.	1889	Brockville.
Sinclair, Jennie V.	1887	Indore, India.
Smith, A. F.	1897	Kingston.
Smith, Clifford E.	1893	Fairfield East.
Smith, Frederick	1852	(Deceased.)
Smith, James	1877	Toronto.
Smith, John	1897	Renfrew.
Smith, John E.	1889	Arnot.
Smith, Robert L.	1879	Appleton, Wis.
*Smith, William S.	1877	(Deceased.)
*Smith, Thomas G., D.D.	1847	(Deceased.)
*Snodgrass, John A.	1868	Scotland.
Snyder, J. B.	1896	Lancaster.
Spear, R.	1893	Cobourg.
*Spencer, Hugh J.	1889	Winchester.
Spottswood, M. G.	1894	
Steen, Henrietta	1888	Farran's Point.
Steers, Cherry (Primrose)	1893	New York.
Stewart, Alexander S.	1878	(Deceased.)
Stewart, Daniel	1883	(Deceased.)
Stewart, James A.	1892	Carleton Place.
Stewart, R.	1893	Bluevale.
Stewart, R. T.	1895	Mitchell.
Stewart, William R.	1887	Notre-de-Laus, Que.
*Strachan, Donald	1865	Guelph.
Strange, O. S., M.D.	1842	Kingston.
Sullivan, P. H.	1893	Kingston.
Swales, Olive	1892	
Swets, Florence E.	1893	Montreal.
*Sym, F. Petry	1884	(Deceased.)
*Taft, J. N.	1877	Brooklyn, N.Y.

Name.	Date of First Registration.	Address.
Taggart, Robert.	1890	Cardiff, Assa.
Tandy, R. H. Norma (Williamson)	1896	Kingston.
*Taylor, Hugh	1873	Loch Winnoch.
Telgmann, Henrich B.	1887	New York.
*Thom, Leslie W.	1877	Flesherton.
Thomas, Henry P.	1882	Belleville.
Thompson, Andrew W.	1879	(Deceased.)
*Thompson, Archibald, B.A.	1890	Hepworth, Ont.
Topliffe, Annie (Lapp)	1891	Glenvale.
Tracy, Thora D.	1897	Kingston.
Tripp, J. H.	1894	Fitzroy Harbour.
Twitchell, Marshall C.	1887	Burlington.
Van Blaricom, George B.	1889	
Varcoe, George F.	1886	Fenelon Falls.
Voaden, A.	1896	St. Thomas.
Wagner, W. G.	1894	South Bend, Indiana.
Waldron, Edward W.	1889	Kingston.
Walkem, Hugh.	1875	Spence's Bridge, B.C.
Walkem, Walter, C.A.	1886	(Deceased.)
*Wallace, Robert.	1842	(Deceased.)
Ward, David.	1850	Almonte.
Ward, Marjory.	1889	Renfrew.
Watson, Angus R.	1885	
Welch, Frederick.	1867	Kingston.
White, Mary H., (Cosgrove)	1893	Stratford.
Whyte, W. M.	1893	Pakenham.
*Wilkins, T. W., B.A.	1863	Trenton.
Wilkie, Isabella.	1896	Carleton Place.
Williams, A. S.	1896	Newmarket.
Wilson, Daniel A.	1886	Kingston.
Wilson, Samuel.	1888	Allan's Mills.
Witheril, Ebenezer.	1889	Westport.
Wright, Henry A.	1879	Trenton.
Young, J. A.	1894	London.
Young, E. T.	1895	Toronto.
Young, John G.	1892	Bristol, Que.
Yonng, William	1886	Peterboro.
Yourex, Edmund L.	1887	Kingston.

ALUMNI ASSOCIATION.

The Registrar will be much obliged for notice of additions or corrections to this list.

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President.....Hon. Mr. Justice Maclennan
Vice-President.....Rev. A. Gandier
Secretary-Treasurer .....A. H. Beaton, B.A.
Bard..... .....Deceased.
Executive.....James J. McLennan.
E. R. Peacock.
George F. Macdonnell.

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President.....F. H. Chrysler, K.C.
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Dr. Freeland,
Rev. Mr. Milne,
Miss M. MacKeracher.
Secretary-Treasurer..... .J. H. Putman.
Council.....Mr. Andrew Haydon,
Dr. R. S. Minnes,
Mr. J. T. Norris,
Mr. J. F. Sullivan,
Mr. J. C. Spence,
Dr. J. F. Waters,
Dr. Le Sueur,
Miss A. E. Sinclair,
Miss A. E. Marty,
Mr. T. G. Marquis.

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President..... .....George Hodge, M.D.
Vice-Presidents .....Rev. James Rollins, B.A.,
George Malcolm, B.A.,
J. F. Scott, B A.,
Rev. Dr. Ross,
F. P. Gavin, B.A.
Secretary-Treasurer..... C. B. Edwards.

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Vice-President..... Col. W. A. Logie.

Sec'y-Treas..... Dr. J. H. Laidlaw.

Executive Com..... { Dr. Thos. Bertram, Dundas, Rev. Harper Gray, " John B. Turner, Rev. Jas. Anthony, Waterdown.

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President.....Sir Henri Joly de Lothbiniere, L.L.D., Vancouver, B.C.

Secretary..... .....William Burns, B.A., Vancouver, B.C.

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Vice-Presidents..... { Rev. C.G. Young, B.D., Prince Albert, Sask. Rev. J. S. Watson, B.A., Minnedosa, Man. Dr. H. H. Chown, L.L.D., Winnipeg, Man. Hon. T. D. Cumberland, Brandon, Man. Rev. J. K. Clark, B.A., Estevan, Sask.

Secretary-Treasurer .....D. H. Laird, M.A., Winnipeg, Man.

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President.....J. D. Lafferty, M.D., Calgary.

Vice-Presidents..... { Geo. Bryan, B.A., Calgary (Prin. Normal School) Rev. Jos. Ferguson, B.A., Didsbury. Rev. Jas. Shortt, B.A., DeWinton.

Secretary.....H. A. Gibson, M.D., Calgary.

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President.....Dr. F. J. Kirk.

1st Vice-President.....Mr. D. C. Porteous.

2nd Vice-President.....Dr. F. J. McCammon.

3rd Vice-President..... ..Dr. R. G. Moore.

Treasurer.....Mr. W. F. Marshall
Secretary..... ..... .Dr. Geo. E. Hayunga.

Executive Committee... {Dr. S. H. Gardiner.
Mr. G. H. Squire.
Mr. S. A. Mitchell.
Dr. V. Barber.

ADDITIONS TO THE LIBRARY 1905-1906.

Books, 1602; Pamphlets, 408; Donated, 860; Purchased 1150; Periodicals, &c. bound, 88. Total, 2098.

DONATIONS.

Dominion Government	103	Volumes.
United States Government	191	"
Ontario Government	26	"
Nova Scotia Government	6	"
New Zealand Government	12	"
Manitoba	2	"
South African Government	25	"
British Columbia Government	20	"
New Brunswick Government	1	"
Quebec Government	1	"
Australia Government	1	"
British Government	6	"
Macmillan & Co	12	"
Smithsonian Institnte	5	"
American Universities	110	"
Scotch Universities	8	"
English Universities	3	"
Canadian Universities	58	"
Miscellaneous Universities	14	"
Private Donations	186	"
Miscellaneous Donations	70	"
Total	860	

BENEFACTIONS.

BEQUESTS AND SPECIAL ENDOWMENTS.

St. Andrew's Church Ladies' Association, Toronto—Scholarship	$ 800 00
Ladies of Kingston—Scholarship	500 00
His Royal Highness, THE PRINCE OF WALES—Prize	800 00
The late JOHN MOWAT, Kingston—Scholarship	800 00
The late JOHN ALEXANDER LEWIS, Monro—Prize	400 00
The late GEORGE MICHIE, Toronto	2,000 00
The late M. C. CAMERON, Goderich, Gælic Scholarship	1,000 00
The late EDWARD H. HARDY, Kingston	400 00
MRS. GLASS, Sarnia, for HENRY GLASS Memorial Scholarship	500 00
The late E. LAWSON, Aberdeen—Dominion Scholarship	1,000 00
Friends of the late PRINCIPAL LEITCH—Memorial Scholarship	2,462 03
The late REV. ALEXANDER BUCHAN, Stirling—Scholarships	3,000 00

The late Mrs. Margaret W. McIntyre, Perth—Scholarship	400 00
The late John Watkins, Kingston—Elocution Lectureship	4,000 00
The late John Watkins, Kingston—Scholarship	1,300 00
David Strathern Dow, Toronto—Scholarship	1,500 00
The late Robert Sutherland, B.A., Walkerton	11,735 00
The late Alexander Rankin, Leamington, England—Scholarship	2,350 00
The late Alexander Spence, D.D., Ottawa	3,427 00
" " " " Scholarship	1,000 00
The late James Michie, Toronto	4,000 00
The late David Greenshields, Montreal	5,000 00
The late James Anderson, Acton	500 00
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John S. McDonald, Fon du Lac, Wis.—Bursary	1,500 00
Hon. Senator Gowan, C.M.G., LL.D., Barrie, Scholarship in Biology and Political Science	1,400 00
Friends of the late Dr. Williamson, Memorial Scholarships	3,100 00
The late Mrs. Nichols, Peterborough	24,500 00
The late Robert Anderson	1,800 00
The late Forbes McHardy, Toronto—Scholarship	500 00
Hugh Waddell, South Monaghan—for Scholarship in Divinity	2,000 00
Hugh Waddell—for additional Chair in Theology	5,000 00
Hon. Alexander Morris, Q.C., to found the Hon. William Morris Bursary	1,000 00
A. T. Fulton, Toronto	3,000 00
The late M. Doran, Kingston	21,384 00
The late Mrs. Malloch, Hamilton	2,000 00
The late Mrs. Mary Tawse—Scholarship	900 00
The late Jas. Stewart	5,000 00

ENDOWMENT OF CHAIRS AND TUTORSHIPS.

In 1888, William Nickle, Esq., Kingston, gave the sum of $2,500 to found "The William Nickle Tutorship in Mathematics."

In 1892, Hugh Waddell, Esq., South Monaghan, gave the sum of $2,500 to found, in memory of his father, "The Robert Waddell Tutorship" in Physics or Natural Science.

In 1893, John Roberts, Esq., Ottawa, bequeathed the sum of $40,000 to the University. In recognition of his generosity, the Trustees resolved that the Chair of Animal Biology should bear his name, and that the Chair of Botany should bear the name of John Roberts Allen, his executor.

In 1892, the Hon. Senator Gowan gave a contribution to be the nucleus of an endowment for a Chair of Political and Economic Science to bear the name of the late Right Hon. Sir John A. Macdonald, and added to it from time to time till in 1898 it amounted to upwards of $5,000.00. The Trustees then issued an appeal for the object to the friends of the great statesman, and this resulted in increasing the sum available to nearly $22,000. It was then decided to found the Chair, and Professor Adam Shortt was made the first occupant and at the same time he was relieved of the charge of the library and Miss Lois Saunders was appointed Librarian at a salary of $400. On April 30th, 1899, the Sir John Chair was formally established, Sir Charles Tupper, Bart, M.P., pronouncing the oration in honour of his old leader, in the City Hall on that day.

The late Dr. Williamson prepared for "Doomsday Book" a history of the first fifty years of the University. He has given an account of the Funds raised at different times for general or special purposes during this period, with the names of subscribers, down to the Jubilee Fund of 1887-90. When the history is completed, an abridgement with a sketch of the different Funds and the principal contributors will be published in the Calendar.

ARTS PASS PAPERS.

For Papers in
Mineralogy
and
Geology

See Practical Science Papers.

Junior Greek.

1. (*a*) Translate:

τούτοις οὖν τοῖς Ἱπποτόποις προστέταχται περιπετομένοις τὴν γῆν, εἴ τις εὑρεθείη ξένος, ἄγειν ὡς τὸν βασιλέα· καὶ δὴ καὶ ἡμᾶς ξυλλαβόντες ἄγουσιν ὡς αὐτόν. ὁ δὲ θεασάμενος καὶ ἀπὸ τῆς στολῆς εἰκάσας, "Ἕλληνες ἄρα," ἔφη, "ὑμεῖς ὦ ξένοι;" συμφησάντων δὲ ἡμῶν, "πῶς οὖν ἀφίκεσθε," ἔφη, "τοσοῦτον ἀέρα διελθόντες;" καὶ ἡμεῖς τὸ πᾶν αὐτῷ διηγούμεθα· καὶ ὃς ἀρξάμενος, τὸ καθ' ἑαυτὸν ἡμῖν διεξῆει, ὡς καὶ αὐτὸς ἄνθρωπος ὢν, τοὔνομα Ἐνδυμίων, ἀπὸ τῆς ἡμετέρας γῆς καθεύδων ἀναρπασθείη ποτὲ, καὶ ἀφικόμενος βασιλεύσειε τῆς χώρας.

(*b*) Explain the mood of *εὑρεθείη* and *βασιλεύσειε* and the form *καὶ ὃς*.

(*c*) Give the principal parts of *λαμβάνω*, *ἄγω*, *ἁρπάζω*.

(*d*) Decline *βασιλεύς*, *ὤν*, *πᾶς*.

2. (*a*) Translate:

Κρεὶ πέπον, τί μοι ὧδε διὰ σπέος ἔσσυο μηλων
ὕστατος; οὔ τι πάρος γε λελειμμένος ἔρχεαι οἰῶν,
ἀλλὰ πολὺ πρῶτος νέμεαι τέρεν' ἄνθεα ποίης
μακρά βιβὰς, πρῶτος δὲ ῥοὰς ποταμῶν ἀφικάνεις,
πρῶτος δὲ σταθμόνδε λελαίεαι ἀπονέεσθαι
ἑσπέριος· νῦν αὖτε πανύστατος. ἦ σύ γ' ἄνακτος
ὀφθαλμὸν ποθέεις, τὸν ἀνὴρ κακὸς ἐξαλάωσε
σὺν λυγροῖς ἑτάροισι, δαμασσάμενος φρένας οἴνῳ,
Οὖτις, ὃν οὔ πώ φημι πεφυγμένον εἶναι ὄλεθρον.
εἰ δὴ ὁμοφρονέοις ποτιφωνήεις τε γένοιο
εἰπεῖν ὅππῃ κεῖνος ἐμὸν μένος ἠλασκάζει·
τῷ κέ οἱ ἐγκέφαλός γε διὰ σπέος ἄλλυδις ἄλλῃ

θεινομένου ῥαίοιτο πρὸς οὖδει, κἀδ δὲ κ' ἐμὸν κῆρ
λωφήσειε κακῶν, τά μοι οὐτιδανὸς πόρεν Οὖτις.'

(*b*) Scan the first three lines.

(*c*) Comment briefly on the artistic qualities of the extract.

(*d*) Explain briefly the significance of the Cyclops' episode in the Odyssey as a whole.

3. (*a*) Translate:

ἐπειδάν τις αὐτοῖς προσέλθῃ τοὺς ὀφθαλμοὺς ἀλγῶν, λέγουσί που, ὅτι οὐχ οἷόν τε αὐτοὺς μόνους ἐπιχειρεῖν τοὺς ὀφθαλμοὺς ἰᾶσθαι. ἀλλ' ἀναγκαῖον ἂν εἴη ἅμα καὶ τὴν κεφαλὴν θεραπεύειν, εἰ μέλλοι καὶ τὰ τῶν ὀμμάτων εὖ ἕξειν. καὶ αὖ τὸ τὴν κεφαλὴν οἴεσθαι ἄν ποτε θεραπεῦσαι αὐτὴν ἐφ' ἑαυτῆς ἄνευ ὅλου τοῦ σώματος πολλὴν ἄνοιαν εἶναι· ἐκ δὴ τούτου τοῦ λόγου διαίτας ἐπὶ πᾶν τὸ σῶμα τρεπόμενοι μετὰ τοῦ ὅλου τὸ μέρος ἐπιχειροῦσιν θεραπεύειν τε καὶ ἰᾶσθαι.

(*b*) Explain the expression *τὸ οἴεσθαι* and the relation of the sentence in which it stands.

4. Sight:

ἐπεὶ ταῦτα εἶπεν ὁ Ἀστυάγης, ἡ μήτηρ διηρώτα καὶ Κῦρον πότερον βούλοιτο μένειν ἢ ἀπιέναι. ὁ δὲ οὐκ ἠμέλλησεν, ἀλλὰ ταχὺ εἶπεν ὅτι μένειν βούλοιτο. ἐπερωτηθεὶς δὲ πάλιν ὑπὸ τῆς μητρὸς διὰ τί, εἰπεῖν λέγεται, "Ὅτι οἴκοι μὲν τῶν ἡλίκων καὶ εἰμὶ καὶ δοκῶ κράτιστος εἶναι, ὦ μῆτερ, καὶ ἀκοντίζων καὶ τοξεύων, ἐνταῦθα δὲ οἶδ' ὅτι ἱππεύων ἥττων εἰμὶ τῶν ἡλίκων· καὶ τοῦτο εὖ ἴσθι, ὦ μῆτερ, ἔφη, ὅτι ἐμὲ πάνυ ἀνιᾷ (vexes).

5. Translate into Greek:

(*a*) The Athenians broke down the bridge in order that the enemy might not cross the river.

(*b*) I was afraid that the city was captured.

(*c*) If you do not come at once, I shall not wait.

(*d*) The Athenians will not depart until we arrive.

(*e*) Socrates reached Athens on the evening of the next day and being glad to get back after his long absence immediately went to the palaestra where he found many of his old acquaintances. Now as it chanced a fierce battle had been fought recently in which many of the Athenians were killed. The young men were therefore delighted to see Socrates, who sat down beside them and told them the camp-news. Now when he had told them all, he asked Critias how things were in the city. You will very soon know, replied he, for here is Charmides approaching, the most handsome and wise man of the day. Indeed, said Socrates, I knew him when he was but a lad. And even as he spoke Charmides entered.

Senior Greek.

1. Translate:

ἂν δ' ἄρα Τηλέμαχος νηὸς βαῖν', ἦρχε δ' Ἀθήνη,
νηὶ δ' ἐνὶ πρυμνῇ κατ' ἄρ' ἕζετο· ἄγχι δ' ἄρ' αὐτῆς
ἕζετο Τηλέμαχος. τοὶ δέ πρυνήσι' ἔλυσαν,
ἂν δὲ καὶ αὐτοὶ βάντες ἐπὶ κληῖσι καθῖζον.
τοῖσιν δ' ἴκμενον οὖρον ἵει γλαυκῶπις Ἀθήνη,
ἀκραῆ Ζέφυρον, κελάδοντ' ἐπὶ οἴνοπα πόντον.
Τηλέμαχος δ' ἑτάροισιν ἐποτρύνας ἐκέλευσεν
ὅπλων ἅπτεσθαι· τοὶ δ' ὀτρύνοντος ἄκουσαν.
ἱστὸν δ' εἰλάτινον κοίλης ἔντοσθε μεσόδμης
στῆσαν ἀείραντες, κατὰ δὲ πρότονοισιν ἔδησαν,
ἕλκον δ' ἱστία λευκὰ ἐυστρέπτοισι βοεῦσιν.
ἔπρησεν δ' ἄνεμος μέσον ἱστίον, ἀμφὶ δὲ κῦμα
στείρῃ πορφύρεον μεγάλ' ἴαχε νηὸς ἰούσης·
ἡ δ' ἔθεεν κατὰ κῦμα διαπρήσσουσα κέλευθον.
δησάμενοι δ' ἄρα ὅπλα θοὴν ἀνὰ νῆα μέλαιναν
στήσαντο κρητῆρας ἐπιστεφέας οἴνοιο,
λείβον δ' ἀθανάτοισι θεοῖς αἰειγενέτῃσιν,
ἐκ πάντων δὲ μάλιστα Διὸς γλαυκώπιδι κούρῃ.
παννυχίη μὲν ῥ' ἥ γε καὶ ἠῶ πεῖρε κέλευθον,

Odyssey II. 416–434.

2. Comment on the following forms: *ἐπιστεφέας οἴνοιο*, *Ὠκεανός*, *μέροψ*, *φίλον ἦτορ*. What are the differences between the Epic and the Attic use of *ἄν* with subj. and bpt. moods?

3. Describe Homeric society and illustrate from what you know of the "Mycenean age".

4. Translate:

Ἐπίεσε δ' αὐτοὺς μᾶλλον πρὸς τῷ ὑπάρχοντι πόνῳ καὶ

ἡ ξυγκομιδὴ ἐκ τῶν ἀγρῶν ἐς τὸ ἄστυ, καὶ οὐχ ἧσσον τοὺς ἐπελθόντας. οἰκιῶν γὰρ οὐχ ὑπαρχουσῶν, ἀλλ' ἐν καλύβαις πνίγηραῖς ὥρᾳ ἔτους διαιτωμένων ὁ φθόρος ἐγίγνετο οὐδενὶ κόσμῳ, ἀλλὰ καὶ νεκροὶ ἐπ' ἀλλήλοις ἀποθνῄσκοντες ἔκειντο καὶ ἐν ταῖς ὁδοῖς ἐκαλινδοῦντο καὶ περὶ τὰς κρήνας ἁπάσας ἡμιθνῆτες τοῦ ὕδατος ἐπιθυμίᾳ τά τε ἱερὰ ἐν οἷς ἐσκήνηντο νεκρῶν πλέα ἦν, αὐτοῦ ἐναποθνῃσκόντων· ὑπερβιαζομένου γὰρ τοῦ κακοῦ οἱ ἄνθρωποι, οὐκ ἔχοντες ὅ τι γέ ωνται, ἐς ὀλιγωρίαν ἐτράποντο καὶ ἱερῶν καὶ ὁσίων ὁμοίως. νόμοι τε πάντες ξυνεταράχθησαν οἷς ἐχρῶντο πρότερον περὶ τὰς ταφάς, ἔθαπτον δὲ ὡς ἕκαστος ἐδύνατο. καὶ πολλοὶ ἐς ἀναισχύντους θήκας ἐτράποντο σπάνει τῶν ἐπιτηδείων διὰ τὸ συχνοὺς ἤδη προτεθνάναι σφίσιν. ἐπὶ πυρὰς γὰρ ἀλλοτρίας φθάσαντες τοὺς νήσαντας οἱ μὲν ἐπιθέντες τὸν ἑαυτῶν νεκρὸν ὑφῆπτον, οἱ δὲ καομένου ἄλλου ἄνωθεν ἐπιβαλόντες ὃν φέροιεν ἀπῆσαν. THUCYDIDES II. 52.

5. Compare Thucydides with Herodotus with special reference to their leading ideas.

6. Translate:

Ἀδελφοί, ἐὰν καὶ προληφθῇ ἄνθρωπος ἔν τινί παραπτώματι, ὑμεῖς οἱ πνευματικοὶ καταρτίζετε τὸν τοιοῦτον ἐν πνεύματι πραότητος, σκοπῶν σεαυτὸν μὴ καὶ σὺ πειρασθῇς. ἀλλήλων τὰ βάρη βαστάζετε, καὶ οὕτως ἀναπληρώσατε τὸν νόμον τοῦ Χριστοῦ. εἰ γὰρ δοκεῖ τις εἶναί τι, μηδὲν ὤν, ἑαυτὸν φρεναπατᾷ· τὸ δὲ ἔργον ἑαυτοῦ δοκιμαζέτω ἕκαστος, καὶ τότε εἰς ἑαυτὸν μόνον τὸ καύχημα ἕξει, καὶ οὐκ εἰς τὸν ἕτερον. ἕκαστος γὰρ τὸ ἴδιον βαστάσει.

GALATIANS VI. 1–8.

7. Give some account of the "Galatians" addressed in this epistle. What is the main object of the writer?

8. Translate:

Κῦρος μὲν οὖν οὕτως ἐτελεύτησεν, ἀνὴρ ὢν Περσῶν τῶν μετὰ Κῦρον τὸν ἀρχαῖον γενομένων βασιλικώτατός τε καὶ

ἄρχειν ἀξιώτατος, ὡς παρὰ πάντων ὁμολογεῖται τῶν Κύρου δοκούντων ἐν πείρᾳ γενέσθαι. πρῶτον μὲν γὰρ ἔτι παῖς ὢν ὅτ' ἐπαιδεύετο καὶ σὺν τῷ ἀδελφῷ καὶ σὺν τοῖς ἄλλοις παισί, πάντων πάντα κράτιστος ἐνομίζετο πάντες γὰρ οἱ τῶν ἀρίστων Περσῶν παῖδες ἐπὶ ταῖς βασιλέως θύραις παιδεύονται· ἔνθα πολλὴν μὲν σωφροσύνην καταμάθοι ἄν τις, αἰσχρὸν δ' οὐδὲν οὔτ' ἀκοῦσαι οὔτ' ἰδεῖν ἔστι. θεῶνται δ' οἱ παῖδες καὶ τιμωμένους ὑπὸ βασιλέως καὶ ἀκούουσι, καὶ ἄλλους ἀτιμαζομένους· ὥστε εὐθὺς παῖδες ὄντες μανθάνουσιν ἄρχειν τε καὶ ἄρχεσθαι.

XEN. EXPED. CYRI. I. c. ix.

9. Make into Greek:

In a word I hold that our city is the school of Hellas. For we live under a constitution which is a pattern to others. It is called a democracy since its aim is the good of the many not of the few. The laws deal equally with every man. In public affairs neither poverty nor obscurity of station is a bar to a man who has the ability to do the state a service. In private we are not angry with our neighbour for what he may do to please himself, nor do we ever put on those sour looks which, though not positively hurtful, are none the less vexatious. We combine elegance of taste with simplicity of life and we pursue knowledge without enervation. Such is the city on behalf of which those who lie here have nobly fought and nobly died—and on behalf of which all of us who are left behind must cheerfully labour.

If the Athenians had inhabited an island, they would have had it in their power to inflict injuries without suffering any, so long as they were masters of the sea.

I do not think that I know what I do not know. Whether the soul will still exist when we are dead, does not seem to me to have been proved.

Junior Latin.

[Extra-mural students may substitute either part of 7 for either 2 (*c*) or 3.]

1. (*a*) Translate:

Haec, sicuti exposui, ita gesta sunt, iudices; insidiator superatus est, vi victa vis vel potius oppressa virtute audacia est. Nihil dico, quid res publica consecuta sit, nihil quid vos, nihil quid omnes boni; nihil sane id prosit Miloni, qui hoc fato natus est, ut ne se quidem servare potuerit, quin una rem publicam vosque servaret. Si id iure fieri non potuit, nihil habeo, quod defendam. Sin hoc et ratio doctis et necessitas barbaris et mos gentibus et feris etiam beluis natura ipsa praescripsit, ut omnem semper vim, quacumque ope possent, a corpore, a capite, a vita sua propulsarent, non potestis hoc facinus improbum iudicare, quin simul iudicetis omnibus, qui in latrones inciderint, aut illorum telis aut vestris sententiis esse pereundum.

(*b*) Explain the mood of *potuerit, defendam, possent, propulsarent.*

2. (*a*) Translate:

Hoc vice sermonum roseis Aurora quadrigis
Iam medium aetherio cursu traiecerat axem;
Et fors omne datum traherent per talia tempus:
Sed comes admonuit, breviterque adfata Sibylla est:
"Nox ruit Aenea; nos flendo ducimus horas.
"Hic locus est, partes ubi se via findit in ambas:
"Dextera quae Ditis magni sub moenia tendit,
"Hac iter Elysium nobis: at laeva malorum
"Exercet poenas, et ad impia Tartara mittit."
Deiphobus contra: "Ne saevi, magna sacerdos;
"Discedam, explebo numerum, reddarque tenebris.
"I decus, i, nostrum; melioribus utere fatis."
Tantum effatus, et in verbo vestigia torsit.

(*b*) Describe briefly Vergil's Lower World under the following headings: (1) Various divisions; (2) sources of this conception; (3) its influence on later literature and thought.

(*c*) Tu regere imperio populos, Romane, memento—
Hae tibi erunt artes—pacisque inponere morem,
Parcere subjectis, et debellare superbos.

Write fully on the above passage, indicating its significance in Virgil's thought and its relation to the Aeneid as a whole.

(*d*) Scan the above three lines.

3. Discuss briefly the Hercules' myth under the following headings: (1) origin; (2) growth; (3) historical and ideal value.

4. Translate:

Poscimur. si quid vacui sub umbra
lusimus tecum, quod et hunc in annum
vivat et pluris, age dic Latinum,
barbite, carmen,

Lesbio primum modulate civi,
qui ferox bello tamen inter arma,
sive iactatam religarat udo
litore navem,

Liberum et Musas Veneremque et illi
semper haerentem puerum canebat
et Lycum nigris oculis nigroque
crine decorum.

o decus Phoebi et dapibus supremi
grata testudo Iovis, o laborum
dulce lenimen, mihi cumque salve
rite vocanti!

5. Sight translation:

THE ROUT AT TRASIMENUS.

Magnae partis fuga inde primum coepit; et iam nec lacus nec montes pavori obstabant. per omnia arta praeruptaque velut caeci evadunt, armaque et viri super alium alii praecipitantur. Pars magna, ubi locus fugae deest, per prima vada paludis in aquam progressi, quoad capitibus humeris*que* exstare possunt, sese immergunt; fuere, quos inconsultus pavor nando etiam capessere fugam impulerit; quae ubi immensa ac sine spe erat, aut deficientibus animis hauriebantur gurgitibus aut nequicquam fessi vada retro aegerrime repetebant, atque ibi ab ingressis aquam hostium equitibus passim trucidabantur.

6. Translate into Latin:

When the elections had been protracted into the middle of the summer, Clodius suddenly resolved to withdraw from the field and announced himself as a candidate for the ensuing year. He saw that, if he did not do this, he would not have an entire year wherein to enjoy his praetorship, in other words to prosecute his evil designs. At this juncture Cicero warned the people to choose as consuls men who would protect the state from armed violence. For so great was the fear of all classes that no one would go into the forum unless an armed guard were in view. For several days the question was debated in the senate. Suddenly Clodius was murdered on the Appian Way. Immediately Pompeius moved that the case should be tried under the existing laws. Cicero saw that Milo must be defended by him and accordingly he undertook the case.

[For Extra-murals only, see above.]

7. (*a*) Indicate the line of argument adopted by Cicero in his defence of Milo and point out the weakness of his case.

(*b*) Describe the events which led up to the death of Clodius and the appointment of Pompeius as dictator. Indicate the political significance of this latter step.

Senior Latin.

[Extra-mural students may substitute additional questions in 7 for 2 (*c*) and 4 (*c*), one for each.]

1. (*a*) Translate:

Mitis legatio, ni praeferoces legatos Gallisque magis quam Romanis similes habuisset. quibus, postquam mandata ediderunt in concilio Gallorum, datur responsum, etsi novum nomen audiant Romanorum, tamen credere viros fortis esse, quorum auxilium a Clusinis in re trepida sit inploratum; et quoniam legatione adversus se maluerint quam armis tueri socios, ne se quidem pacem, quam illi adferant, aspernari, si Gallis egentibus agro, quem latius possideant quam colant Clusini, partem finium concedant; aliter pacem inpetrari non posse. et responsum coram Romanis accipere velle et, si negetur ager, coram eisdem Romanis dimicaturos, ut nuntiare domum possent, quantum Galli virtute ceteros mortales praestarent.

(*b*) Explain the mood of habuisset, the mood and tense of concedant and praestarent.

2. (*a*) Translate:

"Per patris hospitium, et mensas, quas advena adisti,
"Te precor, Alcide, coeptis ingentibus adsis.
"Cernat semineci sibi me rapere arma cruenta;
"Victoremque ferant morientia lumina Turni."
Audiit Alcides iuvenem, magnumque sub imo
Corde premit gemitum, lacrimasque effundit inanes.
Tum Genitor natum dictis adfatur amicis:
"Stat sua cuique dies; breve et inreparabile tempus
"Omnibus est vitae: sed famam extendere factis,
"Hoc virtutis opus. Troiae sub moenibus altis
"Tot gnati cecidere deum; quin occidit una
"Sarpedon, mea progenies. Etiam sua Turnum
"Fata vocant, metasque dati pervenit ad aevi."
Sic ait, atque oculos Rutulorum reiicit arvis.

(*b*) Scan the first three lines.

(*c*) Using the above passage and the whole episode of which it forms a part, show briefly wherein Vergil may be called a universal poet, a poet not of his own age

merely but of all time. Account for and justify the lengthy battle-scenes of the Tenth Book.

3. Translate:

Ae. Di mé, pater,
Omnes oderínt, ni magîs te quam óculos nunc ego amó meos.
Mi. Quíd? quam illam? Ae. Aeque. Mi. Pérbenigne. Ae. Quíd? ílle ubi est Milésius!
Mi. Périit, abiit, návem ascendit; séd quor cessas? Ae. Abi, pater,
Tú potius deos cómprecare: nám tibi eos certó scio,
Quó vir melior multo es quâm ego, obtémperaturós magis.
Mi. Ego eo intro, ut quae opûs súnt parentur: tú fac ût dixi, sí sapis.
Ae. Quid hôcést negoti? hoc ést patrem esse aut hóc est filium ésse?
Si fráter aut sodális esset, quí magîs morem géreret?
Hic nón amandus? hícine non gestándus in sinu ést? hem!
Itaque ádeo magnam mi ínicit sua cómmoditate cúram.
Ne fórte inprudens fáciam quod nolít: sciens cavébo.
Sed césso ire intro, né morae meis núptiis egomét siem.

4. (*a*) Translate:

Quod si is esset Panaetius, quī virtutem propterea colendam diceret, quod ea efficiens utilitatis esset, ut ii, qui res expetendas vel voluptate vel indolentia metiuntur, liceret ei dicere utilitatem aliquando cum honestate pugnare. Sed cum sit is, qui id solum bonum iudicet, quod honestum sit, quae autem huic repugnent specie quadam utilitatis eorum neque accessione meliorem vitam fieri nec decessione peiorem, non videtur debuisse eius modi deliberationem introducere, in qua quod utile videretur cum eo, quod honestum est, compararetur.

(*b*) Explain the mood of videretur and compararetur.

(*c*) Write short notes on "jus gentium" and the Stoic maxim "cónvenienter naturae vivere".

5. Sight translation:

Ipse eorum opinionibus accedo, qui Germaniae populos nullis aliarum nationum conubiis infectos propriam et sinceram et tantum sui similem gentem extitisse arbitrantur. unde habitus quoque corporum, quamquam in tanto hominum numero, idem omnibus: truces et caerulei oculi, rutilae comae, magna corpora et tantum ad impetum valida: laboris atque operum non eadem patientia, minimeque sitim aestumque tolerare, frigora atque inediam adsueverunt.

6. Translate into Latin:

When the Gauls discovered that Roman ambassadors were fighting in the ranks of the Clusini, they decided to forego their anger toward the latter. Some favored an immediate advance on Rome. Others urged that they should despatch an embassy to Rome to complain of this gross violation of international law; when this had been done they would be able to judge whether the Romans were foes worthy of their mettle. Still others declared that their crime was too great to be forgiven. In the end the opinion of the majority prevailed, namely that they should send the embassy but meanwhile advance slowly in order to be prepared for any emergency. If they had advanced with all speed the city might have been captured; but the slower their advance, the less was their chance of success.

7. Write notes on any two of the following:

(*a*) The influence of the Stoic philosophy on Rome.

(*b*) Livy's reliability and his value as an historian.

(*c*) The place which Vergil occupies in Latin literature.

(*d*) Cicero's service to the Romans as an interpreter of Greek literature and philosophy.

(*e*) The function of the slave in Roman Comedy.

JUNIOR GERMAN.

Dictation.

Vor langen, langen Jahren, es weiss kein Mensch, wie lange, da war hier ein grosser Krieg. Die Feinde, die heranrückten, waren gar nicht wie Menschen, sondern wie wilde Tiere. Sie waren klein und krumm und hatten flache Gesichter, so gelb wie Citronen, und ihre Augen waren so klein, dass man sie gar nicht sah. Sie waren mit ihren Pferden zusammengewachsen und jagten dahin, wie die Heuschrecken mit dem Ostwind. Wo sie hinkamen, da war alles im Umsehen verzehrt und blieb nichts zurück als der nackte Boden. Die Kunde von ihnen hatte das Land mit Schrecken erfüllt, doch waren die Einwohner entschlossen, ihren Boden bis aufs äusserste zu verteidigen.

Junior German.

I.

1. Translate :

(*a*) Am andern Morgen klopfte es früh bei mir an der Tür und herein trat mein alter Doktor, der Hofrat. Er war der Freund, der Leib- und Seelensorger unserer ganzen kleinen Stadt. Ich kenne ihn nicht anders, als wie er damals vor mir stand : seine hellen blauen Augen unter den buschigen Augenbrauen hervorleuchtend, sein volles weisses Haar, noch immer voll von Jugendkraft, gekräuselt und lebendig. Auch seine Schuhe mit den Silberschnallen, seine weissen Strümpfe, seinen braunen Rock, der immer neu aussah und doch immer der alte zu sein schien, kann ich nicht vergessen, und sein Krückstock war derselbe, den ich als Kind so oft an meinem Bett hatte stehen sehen, wenn er mir den Puls fühlte und mir Arznei verschrieb.

(*b*) Nachdem wir das Material kennen gelernt haben, das unsere Erdkruste zusammensetzt, bleibt uns noch die Aufgabe übrig, zu untersuchen, unter welchen Umständen die Bildung der Erdoberfläche mit ihren Bergen und Tälern vor sich gegangen ist. Die Sedimentärgesteine sind aus Niederschlägen des Wassers gebildet und darum ursprünglich in horizontalen Schichten abgelagert, demungeachtet sehen wir sie aber zum grössten Teile in schräger Stellung auftreten und müssen deshalb annehmen, dass nach der Ablagerung noch weitere Veränderungen in örtlicher Beziehung (Dislokationen) vor sich gegangen sind.

2. Give equivalents in (*a*) German and (*c*) English for :

Mir graust vor deiner Liebe.—Du jammerst mich.—Dort wird Euch ein Strom von Liebe zu Teil.—Es handelt sich nur darum, dass du meine Bitte erfüllst.—Jahre gingen ins Land. —Er war dir gar nicht grün.—Es gilt! Schlagen Sie ein.—Das war überlistet.

3. Give principal parts, and present indicative singular, of *trat*, *kenne*, *stand*.

4. Decline with def. art. *Morgen*, *Tür*, *Augen*.

II.

1. Translate into German :

(*a* Lafontaine was fond of eating a baked apple every evening before he went to bed. One evening he was called out of his study just as he was about to eat his apple, and he laid it upon the table. During his absence a friend came into the room, saw the apple and ate it. When Lafontaine returned, he did not find his apple. He guessed the truth and cried out : "What has become of my apple ?" The visitor said : "I do not know." Lafontaine said : "I am glad of that ; I put some poison into it to kill rats." The friend, exceedingly frightened, cried out : "Send for a doctor." Lafontaine laughed heartily when he heard this and said : "Dear friend, calm yourself ; I remember now that I forgot to put in the poison ; but I am very sorry that it needed a lie to discover the truth."

(*b*) I am dizzy.—What has become of them. She thanked her lover for his great love.—If you are satisfied with it, so am I.—He went into the room and remained standing there.—Aennlein is still waiting for a king's son, or something of the kind.

2. Antworte man folgende Fragen auf Deutsch :

(*a*) Wie viele Wünsche gewährte Entenschnabel ?—Wem gewährte er sie ?—Was wünschten diese ?—Wie gingen ihre Wünsche in Erfüllung.

(*b*) Warum heisst Carmen Sylvas Geschichte ,,Ein Gebet" ?—Wie wird dieses Gebet erhört ?—Was ist Berthaldas Verbrechen ?—Warum hat sie gesündigt ?—Warum erhalt sie keine Absolution dafür ?—Wie büssen sie und Raoul ?

3. Write in German a short character sketch of Adelheid *or* Editha.

III.

1. How far do the present day social or political conditions of Germany differ from those depicted in the ,,Die Journalisten" ?

2. What use does Carmen Sylva make of natural description or phenomena in ,,Ein Gebet" ?

3. (*a*) Wie sind die Berge entstanden ? (*b*) Was sind Vulkane? Wie wirkt das Wasser auf die Erdoberfläche. (Answer in German or English, German preferred.

SENIOR GERMAN.

Dictation.

Der Mann entledigte sich des Hutes und des Mantels und trat an's Fenster. In dem gegenüberliegenden Haus flimmerten die Lichter eines Christbaums, und die Schatten von Kindern und Erwachsenen zeichneten sich auf den niedergelassenen Vorhängen. Lange blickte der Mann auf die erleuchteten Fenster, dann wandte er sich ab, strich sich mit der Hand über die Augen und sprach leise von sich hin : „Ich bin allein."

Als ob er dem hätte widersprechen wollen, näherte sich ihm der Pudel und berührte seine Hand mit der kalten Nase, aber sein Herr achtete der Liebkosung nicht. „Ich bin allein," wiederholte er. Dann setzte er sich in einen Sessel und starrte vor sich nieder.

Es waren keine heiteren Bilder, die der Einsame an sich vorübergleiten liess : eine traurige Kindheit, ein Jünglingsalter voll harter Entbehrungen, mühevolles Ringen und Enttäuschungen aller Art. Ehre und Gut war ihm endlich zu Theil geworden, aber in der Zeit der Noth hatte er es verlernt, sich zu freuen. Die Jugend war dahin, auf seinem dunklen Haar schimmerte der Reif des beginnenden Herbstes—und er war ellein.

Senior German.

I.

1. Translate at sight :

(*a*) Verzeiht, meine holde Freundin. Ich komme nicht, um das Gastrecht in Anspruch zu nehmen. Nur der Wunsch trieb mich her, Euch unverzüglich die Nachrichten von Eurem Bruder zu bringen, die durch den Courier aus Genua heute Abend an mich gelangt sind. Sie sind so guter Art, dass ich nicht fürchte, die Heiterkeit der schönen Wirthin zu trüben, und daher auf Verzeihung rechne, wenn ich Euch diesen edlen Herren für einige Augenblicke entführe. Darf ich hier mit Euch eintreten ? sagte er, auf die Thür zu dem dunkeln Saal deutend, auf die er zugeschritten war.

(*b*) Draussen aber ging die Welt unbekümmert ihren Gang.—Als der Sommer gekommen war, stand auf dem St. Magdalenenkirchhof auf dem Grabe des kleinen Christoph ein blühender weisser Rosenbusch, und bald lag auch ein kleiner Denkstein unter demselben. Den Rosenbusch hatte seine Mutter ihm gepflanzt ; den Stein freilich hatte sie nicht beschaffen können.

2. Translate :

(*a*) Wie der Grossbetrieb grosses Kapital zur Voraussetzung hat, so ist er andererseits der wichtigste Weg zur Bildung und Erhaltung grosser Kapitalvermögen. Durch ihn werden deren Besitzer, die grossen Kapitalisten, mehr und mehr die Träger des wirtschaftlichen und technischen Fortschritts und erlangen so zugleich eine immer grössere sociale Bedeutung. Er bringt also den sogenannten „Kapitalismus" zur grössten Blüte. *Or*

(*b*) Das Tertiär stellt, wie schon erwähnt den Übergang von dem mesozoischen Zeitalter zur Jetztzeit dar, es steht aber in seiner Fauna und Flora schon viel näher der Jetztwelt als derjenigen der Kreidezeit. Massgebend hierfür ist vor allem die rasche Entwicklung der Säugetiere, welche nun eine entscheidende Rolle in der Tierwelt spielen, während in der Pflanzenwelt die Dikothledonen mehr und mehr die Uebermacht über die übrigen Pflanzen gewinnen.

3. Erkläre man folgende Wendungen auf Deutsch, dann übersetze man sie ins Englische :—

Das könnte ich schon verrichten.—als ob ihnen an den Träumer nichts gelegen war.—Was sieht Sie mich denn so verfahrsn an, Frau Levke?—dem die Häscher auf dem Nacken sitzen.—Ich bin von Haus aus ein munterer Kamerad.—Der Herr Kurt müsse sich wohl vergriffen haben.—Hin und wieder dachten wir da, Denn sie halt vor dem Blick des erfahrenen Manns die Probe.

II.

1. Uebersetze man ins Deutsche :

The German Poet Joseph Victor von Scheffel at one time was very ill, and his doctor ordered him to go to a warmer climate for a time. The poet therefore went to Italy. After he had been there a few days he received from a friend in the fatherland a letter, not postpaid (postfrei). This letter contained only the following: "I am well; respectfully yours (Achtungsvoll,)" etc. For letters not postpaid a double postage (Porto) must be paid in all countries in Europe by the one who receives them.

The poet was angry, because he had to pay double postage on the letter. One day he took a walk and saw a heavy, white, smooth stone, He carried the stone home, had a well-fitting box of rosewood made, and sent it to his German friend, without prepaying the postage.

When his friend received the box, he expected to find something valuable in it, and gladly paid the postage. On opening the box he found many layers of tissue paper (Seidenpapier), in which the stone was wrapped. In the bottom of the box was a piece of paper on which was written : "On the receipt of the joyful news that you are in the best of health, the weight inclosed rolled off my heart.

Yours respectfully,
Scheffel."

2. Beschreibe man kurzgefasst auf Deutsch (*a*) den Pfarrherrn, *oder* (*b*) Hauke Haien.

III.

1. Beantworte man auf Deutsch eine der folgenden Fragen :

(*a*) Unterscheide man zwrschen Natural- und Geldwirtschaft, und gebe man die Entwickelungsstufen letzterer an. (*b*) Charakterisiere man die Stufen der wirtschaftlichen Entwickelung der central- und westeuropäischen Völker. (*c*) Welche drei Perioden der Volkswirtschaft sind zu unterscheiden ?

Junior French.

A.

1. Write the feminine of absous, franc, pécheur, serviteur, bienfaiteur, oblong, blanc, aigu, and the plural of clou, oeil, détail, feu, travail.

2. Give the principal rules for forming adverbs from adjectives in French. Illustrate each by an example.

3. What are the rules for the position of personal pronouns when used as objects of verbs? Illustrate each rule you give by a short sentence.

4. Write a short appreciation of La Fontaine's treatment of the fable.

B.

Tranlate into English :

(*a*)
"Qu' avez-vous? se mit à lui dire
Quelqu'un du peuple coassant.
—Eh! ne voyez-vous pas, dit-elle,
Que la fin de cette querelle
Sera l'exil de l'un; que l'autre, le chassant,
Le fera renoncer aux campagnes fleuries?
Il ne régnera plus sur l'herbe des prairies,
Viendra dans nos marais régner sur les roseaux.

From which fable is this extract taken? Write in French the moral.

Which of the above lines are Alexandrines?

What are the essential features of these lines?

(*b*) PERRICHON.—(à part) Je suis très contrarié... très contrarié ...j'ai passé une partie de la nuit à écrire à mes amis que je me battais...je vais être ridicule.

ARMAND.—(à part) Il doit être bien disposé. Essayons. (*Haut.*) Mon cher monsieur Perrichon.

PERRICHON.—(sèchement) Monsieur?

ARMAND.—Je suis plus heureux que je ne puis le dire d'avoir pu terminer cette désagréable affaire.

PERRICHON.—(à part) Toujours son petit air protecteur! (*Haut.*) Quant à moi, monsieur, je regrette que vous m'ayez privé du plaisir de donner une leçon à ce professeur de grammaire!

Explain briefly the situation.

(*c*) Oui, madame, et malheureusement je ne suis pas riche. Je suis teneur de livres; n'ayant qu'une maison j'ai bien du temps à moi. J'en ai bien cherché d'autres, mais voilà, je n'ai jamais eu de chance, je n'ai pas trouvé. Ce que je gagne est peu-de-chose. Aussi, pour que la petite ne manque de rien, je porte longtemps le même habit et l'on sourit en me voyant passer; mais cela m'est égal. Une caresse de ma fille me fait oublier ces petites misères. Et, pourvu qu'elle soit heureuse, je suis heureux aussi. C'est demain la Noël. Elle aime les jouets, je le sais, ses yeux parlent pour elle, quand nous sortons nous promener, car elle ne me dit rien, la chère mignonne. Elle est bien raisonnable, allez, pour ses huit ans. Elle se rend bien compte de notre situation.

What side of the French character does this extract specially show?

(*d*) Au moment où M. l'évêque entra, madame Magloire parlait avec quelque vivacité. Elle entretenait *mademoiselle* d'un sujet qui lui était familier et auquel l'évêque était accoutumé. Il s'agissait du loquet de la porte d'entrée.

Il paraît que, tout en allant faire quelques provisions pour le souper, madame Magloire avait entendu dire des choses en divers lieux. On parlait d'un rôdeur de mauvaise mine; qu'un vagabond suspect serait arrivé, qu'il devait être quelque part dans la ville, et qu'il se pourrait qu'il y eût de méchantes rencontres pour ceux qui s'aviseraient de rentrer tard chez eux cette nuit-là. Que la police était bien mal faite du reste, attendu que M. le préfet et M. le maire ne s'aimaient pas, et cherchaient à se nuire en faisant arriver des évènements. Que c'était donc aux gens sages à faire la police eux-mêmes et à se bien garder, et qu'il faudrait avoir soin de dûment clore, verrouiller et barricader sa maison, *et de bien fermer ses portes.*

Write a short account of M. l'évêque.

C.

Translate into French:

I have done everything possible to secure my election as mayor of Arpajon; in truth I think I am just the man for the post, but I am afraid of one thing—I have never been able to make either head or tail of French grammar, especially of the participles. Sometimes they agree, sometimes they don't. When I am speaking I do not show my ignorance, since I carefully avoid all "liaisons". As long as my daughter stays with me, I shall be able to get out of the difficulty—she will compose my speeches, I shall simply have to deliver them; the whole town will listen to me with open mouth, and thanks to my daughter I shall retain my reputation as a learned man. Still I don't care!

PASS.

Junior French.

Dictation.

Le père Ambroise reçut le jeune serf avec cette bonté aisée et caressante que donnne l'habitude de consoler les affligés. Il le conduisit d'abord au réfectoire, où il lui fit prendre place au milieu des novices qui allaient se mettre à table; puis, le repas achevé, il lui montra tout le couvent.

Jean visita tour à tour les jardins cultivés par les moines eux-mêmes, et dont les fruits étaient cités comme les meilleurs du pays; les cloîtres où les frères se promenaient, les mains dans leurs larges manches et la tête baissée, rêvant à Dieu et au salut des hommes; la chapelle où leurs âmes se confondaient dans l'élan d'une prière commune; leurs cellules ornées d'un simple crucifix, symbole de dévouement et de délivrance!

Le père gardien le conduisit ensuite à la bibliothèque, et là Jean tomba dans une véritable extase. Les manuscrits, rangés avec ordre et proprement reliés, étaient au nombre de plusieurs centaines. Ambroise apprit au jeune serf que c'était la propriété du couvent.

PASS.

Senior French.

A.

1. Write a short essay in French, of not more than 3 pages, on

either: The present winter in Canada.

or: The importance of being earnest.

2. Give a brief sketch of the outstanding characteristics of the XI.–XIV., XVII., and the XVIII. Centuries in literature.

3. What do you know of La Fontaine, Montesquieu, Romanticism?

B.

Translate into French:

It is needless, gentlemen, for me to tell you that I was the only melancholy spectator of this funeral, whereas the rest were scarcely moved at it, the practice was so customary to them. I could not forbear speaking my thoughts in this matter to the king. "Sir," I said, "I cannot but wonder at the strange custom in this country of burying the living with the dead. I have been a great traveller and seen many countries, but never heard of so cruel a law." "What do you mean, Sinbad?" said the king, "it is a common law; I shall be interred with the queen, my wife, if she die first." "But, sir," said I, "may I presume to ask your Majesty if strangers be obliged to observe this law?" "Without doubt," replied the king, smiling at my question, "they are not exempt if they be married in this island."

2. Translate into French:

(*a*) I would be afraid to say no, or else I would.

(*b*) He may be sent away covered with shame.

(*c*) If only he had arrived in time, all would have been well.

(*d*) He hardly knew what would become of him.

(*e*) I am afraid he will come to-morrow by the 12 o'clock train.

3. Translate into English:

(1) Il en faisait grand cas.

(2) Tiens! Quelle mauvaise idée, mais vous en reviendrez.

(3) C'est leur lune de miel, par exemple.

4. Give the principal parts (primary tenses) of:

Courir, couvrir, sentir, absoudre, rire, and feminine of aigu, gentil, bénin, concret, roux.

C.

1. Translate:

(1) Elle se recueillit, regarda d'abord vaguement cet étrange tableau. Pendant un instant aussi rapide que l'éclair, ses yeux eurent la lucidité dépourvue d'intelligence que nous admirons dans l'œil éclatant des oiseaux; puis elle passa la main sur son front avec l'expression vive d'une personne qui médite, elle contempla ce souvenir vivant, cette vie passée traduite devant elle, tourna vivement la tête vers Philippe, et *le vit!* Un affreux silence régnait au milieu de la foule. Le colonel haletait et n'osait parler, le docteur pleurait. *Balzac.*

(2) La solidité de la France réside surtout dans sa puissante réserve agricole. Le paysan français est dur, tenace, infatigable au travail; il aime sa terre comme une épouse, l n'aime pas moins l'argent. Sou à sou, écu par écu, il amasse un trésor. Cette passion de l'épargne est d'ailleurs un des traits caractéristiques de la nation. Dans les grandes crises, les campagnes, plus sûrement encore que les villes, fournissent à la France des hommes, s'il lui en manque, de l'or s'il lui en faut. *Foncin.*

(3) Les Prussiens se ruèrent ensemble, saoûls de honte, et le bras du soldat se mit à pointer. Il allait et venait, s'élançait, mordait, reculait; — et ruisselante chaque fois de bulles poupres, la baïonnette s'enfonçait plus loin dans les rangs. L'homme gardait son rire, et attentif, sachant bien qu'il allait mourir, tuait le plus qu'il pouvait, à droite, à gauche, en avant, en arrière, par grands coups sourds, abattait les soldats sur les chevaux, les bêtes sur les hommes, en tas, et sinistre, fossoyeur de sa propre vie, se taillait une litière de viande, préparait son trou, son fumier. Il était si haut qu'il dépassait les Prussiens, dans le soir, de toute sa hauteur
Tales of France.

Or,

A la longue, mon œil, fouillant profond, démêla la figurine de l'enfant, d'une fraîcheur de lilas et de roses broyés ensemble, des traits à peine formés emprisonnés en un béguin illustré de broderies, aux brides trop larges flottant sur le maillot. Son front, un peu fuyant, m'apparaissait comme un menu grain de mil, tout brillant, tout doré. Les yeux demeuraient clos. Il dormait dans la sérénite divine où dut dormir Jésus à Bethléem.

L'église ronflait, les alentours de l'église ronflaient; lui, empli du paradis qu'il quittait à peine, n'attendait rein des hommes, rien des animaux, rien de la terre, ne se réveillait pas. *L'Abbé Roitelet.*

SENIOR PASS.

French.

Dictation.

Causant ainsi, ils entrèrent dans la ferme, où ils trouvèrent vin, fraises et crème. Colomba aida la fermière à cueillir des fraises pendant que le colonel buvait du vin. Au détour d'une allée, Colomba aperçut un vieillard assis au soleil sur une chaise de paille, malade, comme il semblait; car il avait les joues creuses, les yeux enfoncés; il était d'une maigreur extrême, et son immobilité, sa paleur, son regard fixe, le faisaient ressembler à un cadavre plutôt qu'à un être vivant. Pendant plusieurs minutes, Colomba le contempla avec tant de curiosité qu'elle attira l'attention de la fermière. "Ce pauvre vieillard, dit-elle, "c'est un de vos compatriotes, car je connais bien à vôtre parler que vous êtes de la Corse, mademoiselle. Il a eu des malheurs dans son pays; ses enfants sont morts d'une façon terrible. On dit, je vous demande pardon, mademoiselle, que vos compatriotes ne sont pas tendres dans leurs inimitiés. Pour lors, ce pauvre monsieur, resté seul, s'en est venu à Pise, chez une parente éloignée, qui est la propriétaire de cette ferme. Le brave homme est un peu timbre; c'est le malheur et le chagrin.... C'est gênant pour madame, qui reçoit beaucoup de monde; elle l'a donc envoyé ici. Il est bien doux, pas gênant; il ne dit pas trois paroles dans un jour. Par exemple, la tête a déménagé. Le médecin vient toutes les semaines, et il dit qu'il n'en a pas pour longtemps." MÉRIMÉE "*Colomba.*"

PASS.

Scientific French—Second Year.

Translate into English:

(1) Marie, lui dit-il, tu me plais, et je suis bien malheureux de ne pas te plaire. Si tu voulais m'accepter pour ton mari, il n'y aurait ni beau-père, ni parents, ni voisins, ni conseils qui pussent m'empêcher de me donner à toi. Je sais que tu rendrais mes enfants heureux, que tu leur apprendrais à respecter le souvenir de leur mère, et, ma conscience étant en repos, je pourrais contenter mon cœur. J'ai toujours eu de l'amitié pour toi, et à présent je me sens si amoureux que si tu me demandais de faire toute ma vie tes mille volontés, je te le jurerais sur l'heure. Vois, je t'en prie, comme je t'aime, et tâche d'oublier mon âge. Pense que c'est une fausse idée qu'on se fait quand on croit qu'un homme de trente ans est vieux. D'ailleurs je n'ai que vingt-huit ans! une jeune fille craint de se faire critiquer en prenant un homme qui a dix ou douze ans de plus qu'elle, parce que ce n'est pas la coutume du pays; mais j'ai entendu dire que dans d'autres pays on ne regardait point à cela; qu'au contraire on aimait mieux donner pour soutien, à une jeunesse, un homme raisonnable et d'un courage bien éprouvé qu'un jeune gars qui peut se déranger, et, de bon sujet qu'on le croyait, devenir un mauvais garnement. "*La Mare au Diable.*"

(2) Gaston.—Permettz! Votre fille ne m'aimait pas quand vous m'avez attiré chez vous; ce n'étaient pas mes dettes qui m'avaient valu l'honneur de votre choix; puisque ce n'est pas non plus mon titre, je suis bien obligé de croire que vous aviez une arrière-pensée.

Poirier.—Quand même, monsieur!... quand j'aurais tâché de concilier mes intérêts avec le bonheur de mon enfant, quel mal y verriez-vous? qui me reprochera, à moi qui donne un million de ma poche, qui me reprochera de choisir un gendre en état de me dédommager de mon sacrifice, quand d'ailleurs il est aimé de ma fille; j'ai pensé à elle d'abord, c'était mon devoir, à moi ensuite, c'était mon droit. "*Le Gendre de M. Poirier.*"

(3) Avant d'arriver dans le sang de l'homme le germe de la fièvre jaune a fait un stage obligatoire dans les tissus du moustique et réciproquement. C'est là une donnée de première importance. La maladie de l'homme suppose la maladie du moustique et inversement. Seulement la maladie de l'insecte est légère, presque inappréciable, tandis que celle de l'homme est grave. Si jamais l'espèce humaine vient à être débarrassée du micro-organisme de la

fièvre jaune, la stégomie calope en sera débarrassée du même coup. Il y a ainsi une sorte de pacte pathologique entre l'homme et le moustique, une sorte de symbiose morbide dont l'existence du bacille infectieux est le prix. On conçoit dès lors que la disparition du fléau, c'est-à-dire du microbe parasite, ait pour condition la rupture de ce pacte. Il faut isoler l'homme sain du moustique parasité; il faut isoler le moustique sain de l'homme parasité. Il n'y aurait pas d'inconvénient à laisser l'homme sain en présence du moustique sain. Voilà théoriquement le thème. Pratiquement la stratégie sanitaire se résume en cette formule: éviter le moustique, le tuer ou le guérir. C'est en réalisant isolément l'un de ces trois objectifs, ou tous les trois simultanément, que les services sanitaires sont parvenus à assainir l'île de Cuba.

"*Revue Des Deux Mondes*," Sept., 1905.

PASS.

Scientific French—Third Year.

Translate into English:

(1) Mais afin qu'on puisse voir en quelle sorte j'y traitais cette matière, je veux mettre ici l'explication du mouvement du cœur et des artères, qui étant le premier et le plus général qu'on observe dans les animaux, on jugera facilement de lui ce qu'on doit penser de tous les autres; et, afin qu'on ait moins de difficulté à entendre ce que j'en dirai, je voudrais que ceux qui ne sont point versés en l'anatomie prissent la peine, avant que de lire ceci, de faire couper devant eux le cœur de quelque grand animal qui ait des poumons, car il est en tout assez semblable à celui de l'homme, et qu'ils se fissent montrer les deux chambres ou concavités qui y sont: premièrement, celle qui est dans son côté droit, à laquelle répondent deux tuyaux fort larges, à savoir: la veine cave, qui est le principal réceptacle du sang, et comme le tronc de l'arbre dont toutes les autres veines du corps sont les branches; et la veine artérieuse, qui a été ainsi mal nommée, pour ce que c'est en effet une artère.

(2) Toutefois ces neuf années s'écoulèrent avant que j'eusse pris aucun parti touchant les difficultés qui ont coutume d'être disputées entre les doctes, ni commencé à chercher les fondements d'aucune philosophie plus certaine que la vulgaire. Et l'exemple de plusieurs excellents esprits qui, en ayant eu ci-devant le dessein, me semblaient n'y avoir pas réussi, m'y faisait imaginer tant de difficultés, que je n'eusse peut-être pas encore sitôt osé l'entreprendre, si je n'eusse vu que quelques-uns faisaient déja courre le bruit que j'en étais venu à bout. Je ne saurais pas dire sur quoi ils fondaient cette opinion; et si j'y ai contribué quelque chose par mes discours, ce doit avoir été en confessant plus ingénument ce que j'ignorais que n'ont coutume de faire ceux qui ont un peu étudié, et peut-être aussi en faisant voir les raisons que j'avais de douter de beaucoup de choses.

(3) L'idée de l'enterprise suppose que le moustique est l'unique disséminateur de la maladie. C'est précisément ce que venait de prouver la commission américaine, instituée l'année précédente. Elle avait montré que tous les autres modes de contagion supposés étaient imaginaires; que l'on pouvait coucher dans le lit d'un malade ou d'un mort, être en contact avec ses déjections, revêtir ses hardes, user de son linge, se confiner dans des chambres mal

ventilées, à la chaleur humide de 38° et sortir indemne de l'épreuve, si l'on échappe à la piqûre du moustique. La suppression du fléau se ramène donc à la suppression du moustique. Mais cette prétention de supprimer un ennemi insaisissable parait folle à première vue. Vous n'arrivez pas, disait-on, à débarrasser une chambre d'un seul cousin qui y bourdonne, et vous voudriez débarrasser un pays marécageux des légions de mostiques qui y pullulent ?

PASS.

Scientific French.—Fourth Year.

Translate into English :

1. Nous allons, maintenant exposer l'état de nos connaissances touchant les terminaisons de nerfs sensoriels. Ce ne sera pas la partie de nos recherches la moins féconde en conséquences anatomo-physiologiques générales; bien au contraire, il convient d'affirmer que les organes des sens constituent le terrain le plus approprié à la solution des problèmes relatifs au mode de connexion des corpuscules nerveux et au mécanisme de la transmission des courants.

Quelques-unes des hypothèses exposées antérieurement, celle de la polarité dynamique des cellules nerveuses, par exemple, trouvent leur fondement le plus ferme dans la structure du bulbe olfactif et de la rétine.

La muqueuse et le bulbe olfactifs sont deux organes en rapports intimes, et qui devraient être toujours décrits dans un même chapitre de l'histologie du système nerveux. La muqueuse olfactive représente un centre nerveux périphérique. Le bulbe olfactif représente l'organe terminal des fibres nerveuses olfactives, c'est-à-dire le point où celles-ci embranchent leurs courants avec les premiers avant-postes ganglionnaires du cerveau.

2. Les rapports de la chimie avec la géologie devraient être très étendus ; ils sont au contraire restreints. Dans quelques questions, cette science a utilisé les résultats de la chimie pour expliquer la formation des bancs salins de Strassfurt, du gypse, du nitre. Quelques tentatives ont été poursuivies pour classer les roches d'après leur composition, mais sur ce point il reste beaucoup à faire.

La plupart des sciences auront besoin du concours de la chimie et l'historien lui-même viendra lui demander l'âge des fondations superposées des ruines de Babylone, en lui apportant à analyser les objets de bronze ou de cuivre que les dernières fouilles auront mis dans ses mains.

Quant aux applications industrielles des différentes sciences, bien peu ne seront pas justiciables de la chimie. L'ingénieur en aura un besoin constant. Les études poursuivies sur les métaux et les alliages ont donné toute leur valeur aux machines, aux navires et aux armes à feu. Mais deux chapitres des applications des sciences dépendront absolument des progrès de la chimie: nous voulons parler de l'industrie chimique et de l'économie rurale qui transforment la fortune des États, mélangent les peuples et modifient les conditions de leur existence.

Il ne nous appartient pas de développer ce côté de la question ; il nous suffit de l'avoir indiqué et de rappeler, pour terminer, la somme d'efforts que ces recherches ont nécessités. Au milieu de ces transformations incessantes, de ces progès continus, nous voyons que la recherche scientifique n'a jamais eu qu'une méthode : l' expérience. Le mot de Faraday est toujours vrai : " La chimie est une science essentiellement expérimentale."

3. Il est naturel de penser que la matière, dont nous voyons la fécondité se développer en tant de manières, n'est pas stérile sur une aussi grosse planète que Jupiter, qui, comme le globe terrestre, a ses jours, ses nuits, et ses années, et sur lequel les observations indiquent des changements qui supposent des forces très actives. L'homme, fait pour la température dont il jouit sur la Terre, ne pourrait pas, selon toute apparence, vivre sur les autres planètes; mais ne doit-il pas y avoir une infinité d'organisations relatives aux diverses températures des globes de cet univers? Si la seule différence des éléments et des climats met tant de variété dans les productions terrestres, combien plus doivent différer celles des diverses planètes et de leurs satellites? L'imagination la plus active ne peut s'en former aucune idée; mais leur existence est, au moins, fort vraisemblable.

Junior English.

I.

1. Criticize the following sentences as regards their *diction*; explain the nature of the faults and suggest amendments:

(*a*) He encountered some degree of success in his next attempt.

(*b*) He was surprised to find the great quantity of books that had been defaced in the course of a year.

(*c*) The night was bright with the radiancy of lunar effulgence.

(*d*) The custom eventually gave origin to great evils.

(*e*) Mr. N. has always promoted the proposition for a coalition of the two parties.

(*f*) I would like to chip in if you are to raise a memorial to our late honoured chief.

(*g*) He who brings with him into a clamorous multitude the timidity of recluse speculation will be overwhelmed by the stare of petulant incredulity and probably lose his presence of mind.

2. In what positions is the short sentence peculiarly serviceable? Describe and criticize Macaulay's use of it. Describe an artistic use of the loose sentence which distinguishes Carlyle's style.

II.

3. *Portia*—If you had known *the virtue of the ring*,
Or half her worthiness that gave the ring,
Or your own honour to *contain* the ring,
You would not then have parted with the ring.
What man is there so much unreasonable,
If you had pleas'd to have *defended* it
With any *terms of zeal*, *wanted the modesty*
To *urge* the thing held as a *ceremony?*
Nerissa teaches me what to believe:
I'll die for it *but* some woman had the ring.
Bass.—No, by my honour, madam, by my soul,
No woman had it, but a *civil* doctor,
Which did refuse three thousand ducats of me,
And begg'd the ring; the which I did deny him.

(*a*) Explain the situation represented in the above passages.

(*b*) What is the grammatical relation of "wanted" line 7, of "to urge" line 8, and of "but" line 10?

(*c*) Give the meaning of the italicized words and phrases. Explain the reference to Nerissa, line 9.

4. Name the speaker of the following lines or passages and give the connection in which they occur; where necessary explain the meaning:

(*a*) A substitute shines brightly as a king
Until a king be by, and then his state
Empties itself as doth an inland brook
Into the main of waters.

(*b*) I am never merry when I hear sweet music.

(*c*) One in whom
The ancient Roman honour more appears
Than any that draws breath in Italy.

(*d*) There is no vice so simple but assumes
Some mark of virtue on his outward parts.

5. What is your impression of Shylock's character? How had it been affected by the circumstances of his life in Venice? Compare Shylock's punishment in the play with that in the original story and state how far you think Shakespeare means to win the sympathy of the audience for him.

III.

6. Independently of the essential gift of poetic feeling, as we have now attempted to describe it, a certain rugged sterling worth pervades whatever Burns has written; a virtue, as of green fields and mountain breezes, dwells in his poetry; it is redolent of natural life and hardy natural men. There is a decisive strength in him, and yet a sweet native gracefulness: he is tender, he is vehement, yet without constraint or too visible effort; he melts the heart, or inflames it, with a power which seems habitual and familiar to him. We see that in this man there was the gentleness, the trembling pity of a woman, with the deep earnestness, the force and passionate ardor of a hero. Tears lie in him, and consuming fire; as lightning lurks in the drops of the summer cloud.

Illustrate from the above the qualities of Carlyle's *diction*. How does his style compare in this respect with Macaulay's?

7. In what particular directions was Longfellow's poetry specially educative for his countrymen? Illustrate your answer by reference to his poems. What are the general moral and artistic qualities of his poetry?

8. What does Macaulay say of Johnson's manners, benevolence, intellect, religious views, judgment in books and on men and manners? Show how the principle of contrast governs the arrangement of details here. Comment on the merits and defects of Macaulay's presentation of Johnson.

IV.

9. Discuss Tennyson's Lady of Shalott under the following heads: Its allegorical significance, the beauty and mystery of nature, interest in the past, figure and character drawing, beauty of style, music of verse.

10. Give an account of Chaucer's description of the "Frankeleyn." Point out the weaknesses, the limitations and the merits of this type.

Senior English.

I.

1. (1) How all occasions do *inform against me*,
(2) And spur my dull revenge! What is a man
(3) If his chief good and *market of his time*
(4) Be but to sleep and feed? A beast, no more,
(5) Sure he that made us with *such large discourse*
(6) *Looking before and after*, gave us not
(7) That *capability* and *god-like reason*
(8) To *fust* on us unused. Now whether it be
(9) *Bestial oblivion* or some *craven scruple*
(10) Of thinking *too precisely on the event*
(11) A thought which *quartered*, hath but one part wisdom
(12) And ever three parts coward, I do not know
(13) Why yet I live to say "This thing's to do"
(14) Sith I have cause and will and strength and means
(15) To do't. Examples *gross as earth* exhort me.

(*a*) Put the italicized words and phrases into modern language in such a way as to make the meaning evident.

(*b*) In what part of the play does this speech occur? What are the gross examples the speaker refers to in l. 15?

(*c*) What light does this speech throw on the character of the speaker? Are his self-reproaches for delay just?

2. Compare Hamlet's sparing of the King with his decisive action in killing Polonius. How would you explain the apparent contrast? What impression of Hamlet do we receive from the last act of the play? Quote anything that seems to you significant in this respect.

II.

3. Compare the following extracts, giving your opinion of the merits of (*b*) as a modernization or paraphrase of (*a*) and noticing the different qualities of style and versification in the two passages:

(*a*) Ful looth were him to cursen for his tythes,
But rather wolde he yeven, out of doute,
Un-to his povre parisshens aboute
Of his offring, and eek of his substaunce.
He coude in litel thing han suffisaunce.
Wyd was his parisshe, and houses fer a-sonder,
But he ne lafte nat, for reyn ne thonder,
In siknes nor in meschief, to visyte
The ferreste in his parisshe, muche and lyte,
Up-on his feet, and in his hand a staf.
This noble ensample to his sheep he yaf,
That first he wroghte, and afterward he taughte:
Out of the gospel he tho wordes caughte;
And this figure he added eek ther-to,
That if gold ruste, what shall iren do?
For if a preest be foul, on whom we truste,
No wonder is a lewed man to ruste.

(*b*) The tithes, his parish freely paid, he took;
But never su'd, or curs'd with bell and book,
With patience bearing wrong; but offering none:
Since every man is free to lose his own.
The country churls, according to their kind,
(Who grudge their dues, and love to be behind,)
The less he sought his offerings, pinch'd the more,
And prais'd a priest contented to be poor.
Yet of his little he had some to spare,
To feed the famish'd, and to clothe the bare:
For mortified he was to that degree,
A poorer than himself he would not see.
True priests, he said, and preachers of the word,
Were only stewards of their sovereign Lord;
Nothing was theirs; but all the public store:
Intrusted riches, to relieve the poor.
Who, should they steal, for want of his relief,
He judg'd himself accomplice with the thief.
Wide was his parish; not contracted close
In streets, but here and there a straggling house;
Yet still he was at hand, without request,
To serve the sick; to succour the distress'd;
Tempting, on foot, alone, without affright,
The dangers of a dark tempestuous night.

4. (*a*) Define the characteristics in matter and style of the Ancient Ballad, quoting or referring to any of the following ballads by way of illustration: *Sir Patrick Spens*, *Jamie Telfer*, *The Twa Corbies*.

(*b*) Explain in what respects the following poems are imitations of the Ancient Ballad in matter and style and in what respects they are modern: Tickell's Lucy and Colin, Wordsworth's Song at the Feast of Brougham Castle, Coleridge's Ancient Mariner.

III.

5. (*a*) Explain the structure of (1) the Sonnet, (2) the Spenserian Stanza, and comment on the qualities of both as poetic forms.

(*b*) How does Epic poetry differ from Lyric poetry? Illustrate your answer by referring to well known examples of each.

6. (*a*) Explain the following lines from Browning's Abt Vogler:

For earth had attained to heaven, there was no more near nor far.

But here is the finger of God: the flash of the will that can,
Existent behind all laws, that made them, and, lo, they are!

Doubt that thy power can fill the heart that thy power expands.

The high that proved too high, the heroic for earth too hard,
The passion that left the ground to lose itself in the sky,
Are music sent up to God by the lover and the bard.

(*b*) Comment on the characteristics of Lamb's humour as shown in his description of Tipp the Accountant.

IV.

7. What are the racial characteristics of the Anglo-Saxon as shown in his early poetry? Illustrate particularly by reference to the Beowulf, noticing the ethical character of the poem and the artistic development indicated by its style and versification.

8. Give briefly Arnold's discussion of (*a*) Wordsworth's matter, (*b*) his style.

9. (*a*) Illustrate Grimm's law for the shifting of consonantal sounds.

(*b*) Classify the following words, philologically, noting the element which they represent in the English language, the period and cause of their introduction and explaining anything peculiar in their spelling or pronunciation: *Regiment, treason, anemic, debt, tradition, round, rotund, brunette, interlude, hardy.*

10. Give a four column analysis of the following words showing their root, oldest and middle English forms and explaining the processes of change which have taken place: *Monk, manner, won, poor.*

PASS.

Junior History.

1. Give a short account of the municipal system of the Romans, and point out any parallel in the municipal history of France.

2. What was the character of the government of Theodoric the Ostrogoth?

3. Under what circumstances was the Imperial authority restored in Italy under Justinian?

4. What does Mons. Guizot mean when he says that the legislation under Charlemagne was personal and under Hugh Capet territorial? Criticise this statement.

5. Criticise also the views of Mons. Guizot regarding the origin of the Feudal System.

6. How did the French crown encroach on the privileges of the Communes?

7. What were the functions of the Parliament of Paris?

8. Why did the States General of France not succeed in establishing a constitutional government?

9. What was the form of government established under the Directorate after the Reign of Terror?

PASS.

English Constitutional History.

1. What hereditary claim had William I. to the English throne?

2. By the constitution of Clarendon how was a Cleric accused of a crime to be dealt with?

3. Explain the changes from barony by tenure to barony by writ. What were the results of this change?

4. "The loss of Normany brought about a virtual revolution in English affairs." Explain this.

5. Criticise the spirit of the Magna Charta.

6. Two acts in the early part of the reign of Henry VII. are of special importance; the Statute of Liveries and the Navigation Laws. State their character and the circumstances which called for them.

7. State the character of a general warrant, especially as the system arose in the reign of Charles I.

8. Give a brief history of the celebrated Long Parliament.

9. What was the condition of the British Parliament before the passing of the Reform Bill of 1832? Explain the conduct of the House of Lords.

10. Criticise the feature in the constitution of the United States which enjoins that no member of the executive—the cabinet—shall have a seat in Congress. Compare it with the character of the British Cabinet, every member of which must have a seat in the Parliament.

11. What was the character of the government of Canada from 1763 to 1774? Why were the terms of the proclamation of 1763 inapplicable to the condition of Canada?

Mental Philosophy.

Intra-mural.

1. "The uniformity of the course of nature is the ultimate premise in all cases of induction." Explain this view of Mill.

2. Give Plato's analysis of opinion. What is its value as a criticism of the Sophistic theory of knowledge?

3. Consider Aristotle's idea of "telos" (τελος) and show what applications he makes of it.

4. Discuss the freedom of the will.

5. Is the universe good? Give reasons for your answer.

6. What do we understand by religion? Can we consider religions as higher and lower? Explain.

Mental Philosophy.

Extra-mural.

1. (*a*) State briefly the elements of truth in the doctrine of the Sophists that man is the measure of all things, and (*b*) estimate the value of their contribution to the thought and life of their time.

2. Discuss fully Plato's criticism of the doctrine that knowledge is sensible perception.

3. State and explain Aristotle's definition (*a*) of happiness, (*b*) of virtue.

4. How does Aristotle distinguish between voluntary and involuntary action? What bearing has this distinction upon his ethical theory?

5. "As I observed that this truth, *I think, therefore I am*, was so certain that no ground of doubt could be alleged by the sceptics capable of shaking it, I concluded that I might accept it as the first principle of the philosophy of which I was in search." (*a*) Outline the process by which Descartes arrived at this first principle. (*b*) How does he proceed from this point to the proof (*a*) of the existence of God, (*b*) of the existence of matter?

6. How does Berkeley overcome the dualism between mind and matter that was raised in the philosophy of Descartes? Do you consider his solution satisfactory? Give your own view.

Moral Philosophy.

Intra-mural.

[Six questions to be answered.]

1. What misconceptions are at the basis of Comte's view of Metaphysic and Theology? Indicate the true relation of these sciences to the special sciences.

2. "When it is affirmed that the conclusions of geometry are necessary truths, the necessity consists in reality only in this, that they necessarily follow from the suppositions from which they are deduced." Explain and estimate the value of this view of Mill.

3. "The differences in mind between man and the higher animals, great as it is, certainly is one of degree, not of kind." How does Darwin seek to establish this conclusion? Is his view tenable?

4. Show how the later Stoicism arose out of the earlier, and contrast the former with Christianity.

5. Criticise Kant's distinction of duties of imperfect and perfect obligation.

6. How are Kant's arguments for immortality and the existence of God connected with his definition of the *summum bonum?*

7. Give Mill's proof of Utilitarianism. Is his qualitative distinction of pleasures consistent with this proof? Point out any other difficulties involved.

8. Show how Kant's view of freedom is connected with his theory of knowledge. Give a short criticism of the former.

Moral Philosophy.

Extra-mural.

[Six questions to be done.]

1. What misconceptions are at the basis of Comte's view of metaphysic and theology? Indicate the true relations of these sciences to the special sciences.

2. "When it is affirmed that the conclusions of geometry are necessary truths, the necessity consists in reality only in this, that they necessarily follow from the suppositions from which they were deduced." [J.S. Mill, Logic, Book II., chap. V.] Explain and estimate the value of this view.

3. "The difference in mind between man and the higher animals, great as it is, certainly is one of degree, not of kind." ["Descent of Man," chap. IV.] How does Darwin seek to establish this conclusion? Is his view tenable?

4. Show how Kant's view of freedom is connected with his theory of knowledge. Give a short criticism of the former.

5. Estimate Kant's conception of the basis of society.

6. State and comment upon Kant's theory of the beautiful and the sublime.

7. Give Mill's proof of utilitarianism. Is his qualitative distinction of pleasures consistent with this proof? Point out any other difficulties involved.

8. Show how Spencer seeks to connect Evolution with Hedonism. Is his theory satisfactory?

Economics.

Intra-mural.

1. What is meant by the production of wealth? Illustrate with reference to the following forms of wealth: a farm, a timber limit, a patent right, bank stock, a railway ticket.

2. Define capital. Is it desirable that capital, as such, should be distributed equally, or nearly so, among all the members of a community?

3. Explain (*a*) the wages fund theory, (*b*) the iron law of wages. What are the chief forces which determine the wages of unskilled labour?

4. In what ways do banks lessen the amount of money required by a country?

5. How far are arguments in favour of a reasonable protection to native industry applicable to inter-state, or inter-provincial trade?

6. What permanent conditions of modern industry and trade have given rise to trusts?

Economics.

Extra-mural.

[Only six questions to be answered.]

1. Discuss the proposition that, capital is the result of saving.

2. What are the chief forces which determine a rate of wages?

3. State the relation of rent to profit, explaining wherein they agree and differ.

4. In what ways do banks lessen the amount of money required by a country?

5. When is international trade beneficial and when injurious?

6. "The fundamental principles of market value cannot be changed by trusts." Explain, and show under what conditions trusts are able to regulate prices.

7. What were the chief characteristics of economic life during the mediaeval period?

Politics.

Intra-mural.

1. On what grounds does Aristotle claim that laws rather than rulers should be supreme in a state?

2. What is involved in the Greek ideal of society as presented by Aristotle?

3. What new and real problems of political life were raised by Machiavelli?

4. Compare and develop the social significance of these statements: "With what measure ye mete it shall be measured to you again." "Were men all good this doctrine was not to be taught, but because they are wicked and not likely to be punctual with you, you are not obliged to any such strictness with them."

5. Account for the double relationship of conflict and harmony between society and the individual.

6. What elements of truth are there in the individualism advocated by Locke?

Politics.

Extra-mural.

[Only six questions to be answered.]

1. "In the order of nature the state is prior to th household or the individual." Develop the significance of this statement of Aristotle.

2. On what grounds does Aristotle claim that laws rather than rulers should be supreme in a state?

3. "The general will is always right, but the judgment guiding it is not always enlightened." How far is this statement of Rousseau's a criticism of his own theory of the state?

4. Estimate Ronsseau's criticism of representative government.

5. Compare the organs of society and of the state. What social and political changes have brought important human interests at one time under the former and at another under the latter?

6. Compare the relative dependence of the strong and of the weak upon the functions of the state.

7. Whence do the laws derive their ultimate authority?

Junior Mathematics.

1. Find the coefficient of xy^2z in the expansion of $(\Sigma_3 x)^4 - 5(\Sigma x)(\Sigma x^2 y)$.

2. Express $(2-7x+5x^2)/(1+x^3)$ as a series in ascending powers of x, and point out the law of coefficients.

3. Solve the equations:

(i) $\sqrt{3x-11}+\sqrt{3x}=\sqrt{12x-23}$.

(ii) $x^6+117x^3-1000=0$.

4. Distribute $(a+b)(a\omega+b\omega^2)(a\omega^2+b\omega)$, where ω and ω^2 are cubic roots of unity.

5. The volume of a gas varies directly as its absolute temperature, and inversely as its tension, 132 cu. ft. of gas at absolute temperature 315° and tension 72 expands to 144 cu. ft. at an absolute temperature of 420°. Find the tension.

6. Find (*a*) the sum to n terms of $1+3+5+\ldots$, and (*b*) the sum to infinity of $0{\cdot}1\dot{7}\dot{5}\ldots$

7. Prove that the medians of a triangle pass through a common point.

8. If O be the orthocentre of the triangle ABC, the circumcircles of AOB, BOC, COA and ABC are all equal.

9. (*a*) The sum of the squares on two sides of a triangle is equal to twice the sum of the squares on the median to the third side and the square on half the third side. (*b*) ABC is a triangle, AD, BE, CF its medians and P is any point. Prove that $\Sigma PA^2 = \Sigma PD^2 + \frac{1}{3}\Sigma m^2$, where m is a median.

10. Establish the formula $c^2 = v(2r - v)$, and $t^2 = h(2r + h)$ for the circle.

11. (*a*) Find the relation between a degree and a radian. (*b*) A tree 60 feet high subtends an angle of $1^\circ\ 20'$. Find the distance of the tree.

12. Find expressions for the area of a triangle, (*a*) in terms of two sides and the included angle; (*b*) in terms of the three sides.

Senior Mathematics.

1. (*a*) Divide a given line segment in extreme and mean ratio. (*b*) Employ (*a*) to find the surd value of sin 18°.

2. The radius of a circle is a geometric mean between the distances, from the centre, of any point and the chord of contact of the point.

3. In any 3-faced corner the sum of two face angles is greater than the third.

4. (*a*) If A,B,C,D are vertices of a skew quadrilateral and E,F be the mid-points of the diagonals, $AB^2+BC^2+CD^2+DA^2=AC^2+BD^2+4EF^2$. (*b*) In any tetrahedron, if e denote an edge and d a diameter $\Sigma e^2=4\Sigma d^2$.

5. Find the volume of the frustum of a triangular pyramid.

6. Eight cards numbered from 1 to 8 are put into a bag. What is the chance of drawing out two consecutive numbers in drawing two cards?

7. Develop the expansion of $(1+x)^2$, or the binomial expansion for a positive integer.

8. Separate $(2x-3)/(x-1)^2(2x-1)$ into its partial fractions.

9. Find S_n for the series whose nth term is $\frac{1}{2}(n^2-n+1)$.

10. (*a*) Find the addition formula for $\cos(A+B)$, and deduce the other three of the set. (*b*) From (*a*) find the sine, cosine, and tangent of $\frac{1}{2}\theta$ in terms of functions of θ.

11. A road from A to B goes by way of C. C is 50 miles directly north from A, and B is 40 miles 38° west of north from C. How much will the road be shortened in going directly from A to B, and what will be its direction? $\cos 38°=\cdot 7880$, $\sin 16°48'=\cdot 2890$, $\sin 16°49'=\cdot 2892$.

Junior Physics.

[Take four questions from section A. and three from each of the others.]

A.

[Any four questions.[

1. (*a*) Write the equations connecting u, v, a, t, and s, for uniformly accelerated motion. (*b*) Describe any experiment which shows that the motion of a falling body is uniformly accelerated.

2. If the speed of a train can be reduced by brakes $3\frac{3}{4}$ miles per hour every second and it requires 2 seconds to apply brakes, in what distance can a train be brought to rest from a speed of 30 miles per hour?

3. (*a*) State Newton's second law of motion and show how we derive from it the equation $f=ma$. (*b*) A cage weighing 1000 kilograms is being lowered into a mine by a cable. What is the tension of the cable when the acceleration of the cage is 2 m. per sec. per sec.?

4. State the principles of conservation of momentum and conservation of energy and give an illustration of the application of each. A 20 gram bullet is fired from a 9 kilogram rifle with a velocity of $2{\cdot}75\times10^4$ tachs, express the velocity of recoil of the rifle and the kinetic energies of both rifle and bullet.

5. A steamer displacing 7200 tons has a cross-section near the water line of 17400 sq. ft. How much higher will she float in salt water (s.w. 1·03) than in fresh?

B.

[Any three questions.]

6. Write short notes on (*a*) induction and conduction, (*b*) potential, (*c*) "the action of points."

7. (*a*) State Faraday's laws of electrolysis and apply them to the calibration of instruments. (*b*) Describe a Weston voltmeter.

8. (*a*) A current from 110 volt mains passes through an incandescent lamp and an amperemeter (0·001 ohms) in series. The latter reads 0·5 amperes. What is the resistance of the lamp? (*b*) What is platinum resistance thermometry?

9. How did Helmholtz analyze complex tones (klangs)?

C.

[Any three questions.]

10. What is peculiar about the expansion of water and what purpose does this peculiarity serve in nature? A block of quartz is weighed in the air and in water and found to displace 121·39 grams of water at 10° and 120·95 grams at 30°. If the coefficient of cubical expansion of quartz is 0·000036, find that of water.

11. Describe a method of measuring the specific heat of a solid.

12. How can it be shown (*a*) that lights of different colours have different wave lengths, (*b*) that all colour sensations may be produced by mixing lights of the three primary colours?

13. (*a*) Explain the formation of a real image by a convex lens. (*b*) Describe the lenses of a lantern and explain how they form an enlarged image of a slide on a screen. (*c*) If a person cannot see distinctly objects at a greater distance than 1 foot, what lens should he use to look at objects 3 feet away?

Senior Physics.

[Any 10 questions considered a full paper.]

1. A 1-oz. bullet is fired horizontally with a velocity of 1600 feet per sec. into a 20-lb. block of lead hanging by strings. (1) With what velocity does the block start to move? (2) How high does it rise? (3) What fraction of the energy of the bullet is converted into heat?

2. Express the dimensions of pressure and of energy. If 1 lb. =454 gr. and 1 ft. =30·5 cm., express a pressure of 1 lb. per sq. in. in barads and 1 ft.-lb. in ergs.

3. State the "triangle of velocities." A ship *B* sailing NE at 8 knots passes a lighthouse at 1 P.M. and a second ship *C* sailing N at 12 knots passes the same lighthouse at 2 P.M. Show by a diagram how to find the velocity of each ship relatively to the other and the time at which they were closest together.

4. (*a*) Show that the work required to raise a number of bodies through various heights is equal to the work required to raise the total mass through the distance through which the c. of g. is raised. (*b*) Find the work done in digging a cylindrical well 20 ft. deep and 6 ft. diameter, the material having a mean density of 2·4 and being raised to an average height of 2 ft. above the surface.

5. Explain what is meant by "angle of friction." A steamer launched from ways having an inclination of 1 in 25 was observed to pass over 54 ft. in the first 11 seconds, find the coefficient of friction.

6. Explain by an example the meaning of the terms "mechanical advantage" and "kinetic advantage" as

applied to a machine. Apply the principle of work to calculate the mechanical advantage of the screw press and the Bramah (hydraulic) press.

7. Explain the formation of the dark lines of the solar spectrum. What information do they give us about the sun?

8. If a telescope consisting of an object lens ($f=12$ inches) and an eye lens ($f=2$ inches) placed $14\frac{1}{4}$ in. apart, is directed to an object 25 feet away, where will the object appear to be and how large?

9. Explain why light generally appears when a slice of doubly refracting crystal is placed between crossed Nicol prisms and why this light is generally coloured. What use is made of this fact?

10. Describe an isothermal curve for a substance passing from the liquid to the gaseous state. How does it change as the critical temperature is approached and passed?

11. State the theory of exchanges and explain what is meant by saying that the emissive and absorptive powers of a body are equal.

12. Show how to express the difference between the specific heats of a gas in terms of the mechanical equivalent of heat.

Junior Botany.

FIRST PAPER.

1. Make a list, in the following tabular form, of the plants contained in the bundle submitted:

No.	Order.	Genus.	Species.

2. Select from the bundle one specimen belonging to each of the following orders, and describe it under the following heads:—(1) Root, (2) Stem, (3) Leaves, (4) Flowers, (5) Fruit.

1. Ranunculaceae.
2. Violaceae.
3. Rosaceae.
4. Compositae.

Junior Botany.

SECOND PAPER.

1. How do complex plants differ from simple ones?

2. "The position of foliage leaves on the stem, and their relations to one another, must be determined to some extent by the necessity of a favourable light relation." Explain or describe any three of these relations as seen on erect stems.

3. Write notes on any three of the following types of roots:—(*a*) Soil roots, (*b*) water roots. (*c*) air roots, (*d*) clinging roots, (*e*) prop roots.

4. What are the conditions necessary for germination?

5. What are the different parts of a flower, and what are the uses of each part?

6. Describe the difference in structure and modes of growth of Exogenous and Endogenous stems.

7. Explain the difference between determinate and indeterminate inflorescence.

8. How are Xerophyte plants adapted to their conditions?

9. Explain how any two of the following ecological factors affect plant societies:—(*a*) Water, (*b*) heat, (*c*) soil, (*d*) light, (*e*) wind.

10. Write notes on the process known as Photosynthesis.

PASS.

Biology.

Morphology.

1. Give the distinguishing characters of protoplasm. Define *metabolism, nucleus, cytoplasm, chromosomes, coil stage, di-aster stage.*

2. Describe the initial stages in the development of the metazoa.

3. Distinguish the different kinds of muscle tissue. Explain and illustrate the necessity for a liquid tissue.

4. Point out resemblance and differences in the actinozoa and scyphozoa and name the phylum to which they belong.

5. Describe one segment near the end of taenia solium, using a diagram to elucidate your answer.

6. Name the classes of the arthropoda and describe the structure of an animal belonging to the areneida.

7. What are the essential elements in the gills of a fish? What modifications of them are found in the amphibia? In mammals?

8. Point out the distinctive characteristics of the skeleton of a bird. Illustrate how change of function has led to change in form.

PASS.

Biology.

Physiology and Hygiene.

1. Classify the teeth in an adult human being, and give rules for their care.

2. Describe the muscular mechanism of respiration and define the terms *tidal air*, *supplemental air*, *residual air*, *diffusion air*.

3. Explain and illustrate how contractions of the skeletal muscles affect the circulation of the blood. How may the blood be made to circulate more quickly in a delicate person? How will increased circulation affect nutrition and excretion.

4. Give rules for the care of the digestive organs.

5. Explain the origin, distribution and regulation of the heat of the body.

6. Describe the secretion of urine. Give rules for the care of the kidneys.

7. Name the cranial nerves and give their distribution and functions. Indicate the functions of the sympathetic portion of the nervous system.

FACULTY OF ARTS AND FACULTY OF PRACTICAL SCIENCE.

Junior Chemistry.

1. (*a*) Write the formula of ferric hydroxide and state carefully what each part of the formula means and what the formula means as a whole. (*b*) Do the same for marsh gas (methane). (*c*) What meaning can be attached to formula for methane which cannot be attached to that for ferric hydroxide?

2. (*a*) Define *acid*, *base*, and *salt*. (*b*) Show the relations of these classes of compounds to each other. (*c*) Mention three substances which act as both acids and bases, and write formulas for salts of one of them showing each function.

3. (*a*) Describe the contact method of manufacturing sulphuric acid, giving equations. (*b*) What are the raw materials used? (*c*) Discuss the action of sulphuric acid on metals.

4. There are two compounds of elements A and B having the following percentage composition:

	I.	II.
A	77·8	70
B	22·2	30

Show that they illustrate the law of multiple proportions.

5. The gas density of a chlorine compound is 4·14 (air=1); its percentage of chlorine is 89·1. Find the number of times Cl (=35·5) its formula will show.

6. Formula (molecular) weight of a gas is twice its gas

density (hydrogen = 1). Show how this is derived, and account in particular for the *twice*.

7. What volume of carbon dioxide measured at 15°C and 750 mm. pressure can be made by the action of hydrochloric acid on 18 grammes of calcium carbonate [Ca = 40, C = 12, O = 16].

8. (*a*) Describe two methods of manufacturing chlorine. (*b*) Explain the Weldon process for recovery of "manganese". (*c*) What is chlorine used for?

9. Compare sulphur and oxygen (*a*) as to their compounds and (*b*) as to allotropism.

10. (*a*) Define *valence*. (*b*) Indicate by formulas the valence of oxygen in water, of nitrogen in ammonia, of nitrogen in nitric acid, of iron in ferrous hydroxide, and of iron in ferric hydroxide.

FACULTY OF ARTS AND FACULTY OF PRACTICAL SCIENCE.

Senior Chemistry.

[Section B. with *either* section A. or section C. constitutes a complete paper. Write each section on a separate pad, and put your name and the letter of the section on each pad.]

A.

1. Indicate briefly the characteristic properties of the following classes of compounds: (*a*) Paraffins, (*b*) alcohols, (*c*) aldehydes, (*d*) phenols, and (*e*) esters.

2. (*a*) Define *mixed ether*. (*b*) Write an equation indicating how a mixed ether may be made.

3. Indicate by description and formulas the relations to each other of acetic acid, acetic anhydride, acetyl chloride, monochloracetic acid, acetamide, amidoacetic acid (glycocoll).

4. (*a*) How is oxalic acid manufactured? (*b*) What are its properties? (*c*) Write its graphic formula. (*d*) Compare oxalic acid and carbonic acid.

5. (*a*) Indicate by formulas the relations to each other of benzene, phenol, nitrobenzene, aniline, acetanilide, and benzene sulphonic acid.

B.

[Any five.]

1. Build up the equation for the oxidation of ferrous sulphate to ferric sulphate by potassium permanganate ($KMn\ O_4$) and sulphuric acid. The products are ferric sulphate, manganous sulphate ($Mn\ SO_4$), potassium sulphate and water.

2. Describe carefully the *experimental data* necessary

for determining the number of atoms in the molecule of an element.

3. (*a*) What is the *molecular heat* of a compound? (*b*) How can it be calculated theoretically? (*c*) How found by experiment? (*d*) Indicate how the molecular heat of compounds can be used to find the specific heat of an element for the solid state when that element cannot be examined in the solid state.

4. (*a*) Indicate the nature of chemical equilibrium. (*b*) What factors influence the equilibrium? (*c*) Write an equation for a case of homogeneous equilibrium, and one for a case of heterogeneous equilibrium.

5. (*a*) What is *Berthollet's Law?* (*b*) Indicate its relation to the theory of chemical equilibrium. (*c*) Quote illustrations.

6. State the proofs of the validity of the Ionisation theory.

C.

[Any five.]

1. (*a*) How are metals distinguished from non-metals? (*b*) Name some elements which are difficult to classify and explain why. (*c*) What are the important physical and chemical properties of metals?

2. (*a*) Discuss the properties and uses of copper and its alloys. (*b*) Briefly describe the more important copper compounds.

3. (*a*) Describe the manufacture of aluminium. (*b*) What are the chief physical and chemical properties? (*c*) How can it be used to prepare pure manganese or chromium?

4. Discuss the chemistry of the separation of nickel and cobalt.

5. Write equations for the following reactions: (*a*) Hydrochloric acid on iron, zinc, and tin. (*b*) Nitric acid (concentrated) on tin. (*c*) Nitric acid (dilute) on tin. (*d*) Sulphuric acid on copper. (*e*) Sulphuric acid on tin.

6. Write equations for the following reactions, noting any precipitates or changes in colour: (*a*) Hydrochloric acid on solution of silver nitrate. (*b*) Stannous chloride on solution of mercuric chloride. (*c*) Sulphuretted hydrogen on acid solution of cadmium sulphate. (*d*) Ammonium sulphide on alkaline solution of nickel chloride. (*e*) Ammonium carbonate on alkaline solution of barium nitrate. (*f*) Potassium thiocynate on solution of ferric chloride.

Junior Hebrew.

1. Give a table showing the complete pointing of the Heb. def. article, with illustrations.

2. What are the rules governing the first declension of nouns? Give the sing. const. plur. advs. and const. of:

בְּרָכָה מִדְבָּר נָבִיא דָּבָר

3. Explain the use of the "constant state." Does a noun in the const. take the def. article? Where does an adjective stand which qualifies a noun in the const.?

Translate: The good horses of the king.
The good queen of the land.

4. How many "stems" are there in the Heb. verb? What are the Niph'al, Hiph'il and Hithpa'el respectively? What is in general the characteristic of the Pi'el and Pu'al? Give the following parts of קָטַל

Qal.	*Pi'el.*	*Hiph'il.*
Perf. pl.	Imper.	3rd sing. mas. perf.
Inf. const.	Part.	" " " Imperf.
Act. part.		Inf. const.

What parts are the following:

הָקְטַל תִּקְטֹל יִתַּקְטֵל אֶקְטֹל

5. Translate: (1) Gen. I. 6-8; (2) I. Sam IX. 6-8; (3) X. 1-2.

6. Parse all words in (1) Gen. I. 9; (2) Ps. I. 1; (3) all verbal forms in I. Sam IX. 8.

7. Translate: My word, her word, their (masc.) blessings.
This good and powerful people.
The great day of Jehovah.
I (am) not a man of words.
I heard thy voice in the garden.

8. Translate into English :

הַחשֶׁךְ עַל־פְּנֵי הַמָּיִם :

מֶה־עָשָׂה הָאִישׁ :

יָשַׁב הַמֶּלֶךְ בַּמָּקוֹם הַזֶּה :

לֹא שְׁמַרְתֶּם תּוֹרָתִי אָמַר אֱלֹהֵיכֶם :

שִׁפֵּךְ דַּם הָאָדָם בָּאָדָם דָּמוֹ יִשָּׁפֵךְ :

Senior Hebrew.

1. Translate: Jonah II. 7, 8; Haggai I. 6, II. 6, 7, 13, 19; Zech II. 5, 6; Malachi II. 4, 5.

2. Parse (*a*) the verbs in Jonah IV. 1; Haggai I. 14; Malachi I. 5; and (*b*) the nouns in Jonah I. 4; Malachi III. 16.

3. Give these parts of the following verbs:

(*a*) The Qal perf. 2nd pl. m. and imperative 2nd sing. m. of נָתַן

(*b*) The Qal impf. er3rd pl. m. and infinitive constr. of לָקַח

(*c*) The Qal perf. 2nd f. sing. and passive part of גָּלָה

(*d*) The Qal perf. 2nd pl. m. and imperfect 2nd sing. f. of קוּם

(*e*) The Hiph. imperf. 2nd sing. fem. and Qal infin. constr. of יָשַׁב

4. Parse

הֲרָאוֹת תְּשׁוּבִינָה אוֹשֵׁב נִגְּפָה הַגִּידוּ

5. How is the relative pronoun expressed in Hebrew? Discuss fully and illustrate its use in the various cases.

6. Write a careful note on the tense of Hebrew verbs.

7. Translate into Hebrew:

Keep yourselves in the ways of his great righteousness.
Hide not thy face from this wicked people.
Let us draw near unto the Lord that he may judge between us.
When I keep his law I fear not Yahweh.
Walk before me and sanctify yourselves.

8. Translate into English:

נִגְרַשְׁתִּי הַיּוֹם מֵעַל פְּנֵי הָאֲדָמָה וּמִפָּנֶיךָ אֶסָּתֵר׃
הִנֵּה רֹאשׁוֹ מְשֻׁלָּךְ אֵלֶיךָ בְּעַד הַחוֹמָה׃
כַּבֵּד אֶת־אָבִיךָ וְאֶת־אִמֶּךָ׃

קָטַנְתִּי מִכֹּל הַחֲסָדִים׃
וְהָוָה אֲהֵבוֹ יַעֲשֶׂה חֶפְצוֹ׃

ARTS HONOUR PAPERS.

PRELIMINARY HONOURS.

Latin.

Roman History.

[You are recommended to answer six questions.]

1. Describe the powers of senate and magistrates at Rome about 200 B.C.

2. Trace the course of events in the Second Punic War.

3. What were the main causes of the Gracchan Revolution?

4. Give an account of Sulla's legislation.

5. What did Pompey achieve in the East?

6. Describe the campaigns of Julius Caesar between 49 and 45 B.C.

7. How did Julius propose to rule the Empire?

8. What were the powers on which the authority of the principate rested under Augustus?

9. Discuss the special merits of the rule of Claudius.

PRELIMINARY AND FINAL HONOURS.

Latin.

1. Translate with notes on italicized phrases:

Tertio et tricensimo anno, ut *ipsum* audiebam, pedum dolore correptus est. patrius hic illi: nam plerumque morbi quoque per successiones quasdam, ut alia, traduntur. hunc abstinentia, sanctitate, quoad uiridis aetas, uicit et fregit; nouissime cum senectute ingrauescentem uiribus animi sustinebat, cum quidem incredibiles cruciatus et indignissima tormenta pateretur. iam enim dolor non pedibus solis, ut prius, insidebat sed omnia membra peruagabatur. ueni ad eum Domitiani temporibus in suburbano iacentem. serui e cubiculo recesserunt: habebat hoc moris, quotiens intrasset fidelior amicus; quin etiam uxor, *quanquam* omnis secreti capacissima, digrediebatur. *circumtulit oculos* et "cur" inquit "me putas hos tantos dolores tam diu sustinere? ut scilicet *isti latroni* uel uno die supersim." *dedisses* huic animo par corpus, *fecisset quod optabat.* PLINY I, 12.

2. Comment on the letter from which the above extract is taken, with special reference to the ancient attitude toward death.

3. Write notes upon (*a*) The Imperial *Rescripta* and the *Constitutiones Principum.* (*b*) The historical value of Pliny's correspondence with Trajan with reference to the treatment of Christians and the policy pursued in the Empire at that time as indicated in Trajan's reply.

4. Translate:

Orationem ducis secutus militum ardor, signumque pugnae datum. nec Arminius aut ceteri Germanorum proceres omittebant suos quisque testari, hos esse Romanos Variani exercitus fugacissimos, qui ne bellum tolerarent, seditionem induerint; quorum pars onusta vulneribus terga, pars fluctibus et procellis fractos artus infensis rursum hostibus, adversis dis obiciant, nulla boni spe. classem quippe et avia Oceani quaesita, ne quis venientibus occurreret, ne pulsos premeret: sed ubi miscuerint manus, inane victis ventorum remorumve subsidium. meminissent modo

avaritiae, crudelitatis, superbiae: aliud sibi reliquum quam tenere libertatem aut mori ante servitium? TACITUS, ANNALS ii, 15.

5. Write notes on (*a*) the foreign policy of Tiberus in as far as it affected the German frontier. (*b*) Tacitus' opinion of this policy.

6. Translate:

Ad ea Sulla pro se breviter et modice; de pace et de communibus multis disseruit. Denique regi patefecit, "quod polliceatur, senatum et populum Romanum, quoniam amplius armis valuissent, non in gratiam habituros: faciendum aliquid, quod illorum magis quam sua retulisse videretur; id adeo in promptu esse, quoniam Jugurthae copiam haberet; quem si Romanis tradidisset, fore, uti illi plurimum deberetur; amicitiam, foedus, Numidiae partem, quam nunc peteret, tunc ultro adventuram." Rex primo negitare: "adfinitatem, cognationem, praeterea foedus intervenisse; ad hoc metuere, ne fluxa fide usus, popularium animos averteret, queis et Jugurtha carus, et Romani invisi erant." Denique, saepius fatigatus, lenitur, et ex voluntate Sullae omnia se facturum promittit. Ceterum ad simulandam pacem, cujus Numida, defessus bello, avidissimus, quae utilia visa, constituunt. Ita composito dolo digrediuntur. SALLUST, JUGURTHA CXI.

7. Translate:

Sed, opinor, non vultis nos perire, quos pessimos creditis. Sic enim soletis dicere homicidae: Nega; laniari jubere sacrilegum, si confiteri perseveraverit. Si non ita agitis circa nocentes, ergo nos innocentissimos judicatis, cum quasi innocentissimos non vultis in ea confessione perseverare, quam necessitate, non justitia damnandam a vobis sciatis.

Vociferatur homo: Christianus sum. Quod est dicit; tu vis audire quod non est. Veritatis extorquendae praesides, de nobis solis mendacium elaboratis audire. Hoc sum, inquit, quod quaeris, an sim; quid me torques in perversum? confiteor, et torques; quid faceres, si negarem? Plane aliis negantibus non facile fidem accommodatis; nobis, si negaverimus, statim creditis. Suspecta sit vobis ista perversitas, ne qua vis lateat in occulto, quae vos adversus formam, adversus naturam judicandi, contra ipsas quoque leges ministret. Nisi enim fallor, leges malos erui jubent, non abscondi; confessos damnari praescribunt, non absolvi. Hoc senatus consulta, hoc principum mandata definiunt, hoc imperium, cujus ministri estis. Civilis, non tyrannica dominatio vestra est.

—TERTULLIAN, APOLOGY II.

Latin.

I.

[For Preliminary and Final Honour Candidates.]

Translate into Latin:

The event surpassed his own expectations and those of the world. By the most signal victories he delivered the empire from this host of barbarians, and was distinguished by posterity under the glorious appellation of the Gothic Claudius. The decisive battle was fought near Naissus, a city of Dardania. The legions at first gave way, oppressed by numbers, and dismayed by misfortunes. Their ruin was inevitable, had not the abilities of their emperor prepared a seasonable relief. A large detachment, rising out of the secret and difficult passes of the mountains, which, by his order, they had occupied, suddenly assailed the rear of the victorious Goths. The favourable instant was improved by the activity of Claudius. He revived the courage of his troops, restored their ranks, and pressed the barbarians on every side. Fifty thousand men are reported to have been slain in the battle of Naissus. Several large bodies of barbarians, covering their retreat with a movable fortification of waggons, retired, or rather escaped, from the field of slaughter.

GIBBON.

II.

[For Final Honour Candidates only.]

He was monarch; but he never played the king. Even when absolute lord of Rome, he retained the deportment of the party-leader; perfectly pliant and smooth, easy and charming in conversation, complaisant towards every one, it seemed as if he wished to be nothing but the first among his peers. Caesar entirely avoided the blunder into which so many men otherwise on an equality with him have fallen, of carrying into politics the military tone of command; however much occasion his disagreeable relations with the senate gave for it, he never resorted to outrages such as was that of the eighteenth Brumaire. Caesar was monarch; but he was never seized with the giddiness of the tyrant. He is perhaps the only one among the mighty ones of the earth, who in great matters and little never acted according to inclination or caprice, but always without exception according to his duty as ruler, and who, when he looked back on his life, found doubtless erroneous calculations to deplore, but no false step of passion to regret.

MOMMSEN.

HONOURS.

Latin.

Verse Authors.

[Preliminary Honours to omit 1 (*b*) and 5.]

1. (*a*) To what extent is Horace a typical Roman? (*b*) What light do his writings throw on the Roman character?

2. Attempt some characterisation of Roman religion.

3. Give a sketch of the nature of the Elegies of Propertius.

4. Translate, where necessary with short notes:

(*a*) Quam bene Saturno vivebant rege prius quam
tellus in longas est patefacta vias!
Nondum caeruleas pinus contempserat undas,
effusum ventis praebueratque sinum,
nec vagus ignotis repetens compendia terris
presserat externa navita merce ratem.
Illo non validus subiit iuga tempore taurus,
non domito fraenos ore momordit equus,
non domus ulla fores habuit, non fixus in agris,
qui regeret certis finibus arva, lapis.
Ipsae mella debant quercus, ultroque ferebant
obvia securis ubera lactis oves.
Non acies, non ira fuit, non bella, nec ensem
inmiti saevus duxerat arte faber. TIB. I. 3.

Compare these ideas with those of Horace.

(*b*) Talibus incensus dictis senioris amici,
tum vero in curas animo diducitur omnes.
et Nox atra polum bigis subvecta tenebat:
visa dehinc caelo facies delapsa parentis
Anchisae subito tales effundere voces:
"nate, mihi vita quondam, dum vita manebat,
care magis, nate, Iliacis exercite fatis,
imperio Iovis huc venio, qui classibus ignem
depulit et caelo tandem miseratus ab alto est.
consiliis pare, quae nunc pulcherrima Nautes

dat senior; lectos iuvenes, fortissima corda,
defer in Italiam. gens dura atque aspera cultu
debellanda tibi Latio est. Ditis tamen ante
infernas accede domos et Averna per alta
congressus pete, nate, meos. non me impia namque
Tartara habent, tristes umbrae, sed amoena piorum
concilia Elysiumque colo. huc casta Sibylla
nigrarum multo pecudum te sanguine ducet."

VERG. Aen. v. 719-736.

(c) Fescennina per hunc invecta licentia morem
Versibus alternis opprobria rustica fudit,
Libertasque recurrentes accepta per annos
Lusit amabiliter, donec iam saevus apertam
In rabiem coepit verti iocus et per honestas
Ire domos inpune minax. Doluere cruento
Dente laccessiti, fuit intactis quoque cura
Condicione super communi, quin etiam lex
Poenaque lata, malo quae nollet carmine quemquam
Describi; vertere modum formidine fustis
Ad bene dicendum delectandumque redacti.
Graecia capta ferum victorem cepit, et artes
Intulit agresti Latio: sic horridus ille
Defluxit numerus Saturnius, et grave virus
Munditiae pepulere; sed in longum tamen aevum
Manserunt hodieque manent vestigia ruris. HOR. Ep. II. 1.

5. Translate Horace, Odes. I. viii.:

Lydia, dic, per omnes
Te deos oro, Sybarin cur properes amando
Perdere; cur apricum
Oderit campum, patiens pulveris atque solis?

Cur neque militares
Inter aequales equitat, Gallica nec lupatis
Temperat ora frenis?
Cur timet flavum Tiberim tangere? Cur olivum

Sanguine viperino
Cautius vitat, neque iam livida gestat armis
Bracchia, saepe disco,
Saepe trans finem iaculo nobilis expedito?

Quid latet, ut marinae
Filium dicunt Thetidis sub lacrimosa Troiae
Funera, ne virilis
Cultus in caedem et Lycias proriperet catervas?

6. Give a brief sketch of Augustus' attitude towards literature and the reasons that actuated him.

FINAL HONOURS.

Latin.

1. Translate :

ST. Abiit hercle illequidem. ecquid audis, Lysiteles? ego te uolo.
Hie quoque hinc abiit. Stasime, restas solus, quid ego nunc agam,
Nisi uti sarcinam constringam et clipeum ad dorsum accommodem,
Fulmentas iubeam suppingi soccis? non sisti potest.
Video caculam militarem me futurum haud longius.
Ut aliquem ad regem in saginam merus sese coniexit meus,
Credo ad summos bellatores acrem—fugitorem fore,
Et capturum spolia ibi—illum qui meo ero aduorsus uenerit.
Egomet autem, quom extemplo arcum mihi et pharetram et sagittas sumpsero,
Cassidem in caput,—dormibo placide in tabernaculo.
Ad forum ibo: nudius sextus quoi talensum mutuom
Dedi reposcam, ut habeam, mecum quod feram, uiaticum.

TRINUMMUS 717–728.

2. Translate with comments on subject matter and forms of words :

(*a*) Dindia Macolnia fileai dedit.
Novios Plautios med Romai fecid.

(*b*) Honc oinom ploirume cosentiunt Romane
duonorom optumom fuise virom virorom

(*c*) Enos Lases iuvate.
Neve luem Marmar sins incurrere in pleores.
Satur fu, fere Mars : limen sali sta berber.
Semunis alternei advocapit conctos.
Enos Marmor iuvato.
Triumpe, triumpe, triumpe.

3. Translate with notes :

(*a*) Et quoniam cœpit Græcorum mentio, transi
Gymnasia atque audi facinus majoris abollæ.
Stoicus occidit Baream, delator amicum,
Discipulumque senex, ripa nutritus in illa.
Ad quam Gorgonei delapsa est pinna caballi.

(*b*) Aemilio dabitur, quantum licet, et melius nos
Egimus : hujus enim stat currus aeneus, alti
Quadrijuges in vestibulis, atque ipse feroci

Bellatore sedens curvatum hastile minatur
Eminus, et statua meditatur prœlia lusca.
Sic Pedo conturbat, Matho deficit : exitus hic est
Tongilii, magno cum rhinocerote lavari
Qui solet et vexat lutulenta balnea turba
Perque forum juvenes longo premit assere Mædos,
Empturus pueros, argentum, murrhina, villas :
Spondet enim Tyrio stlataria purpura filo.

JUVENAL SAT. VII, 124–134.

4. Translate :

Illa quoque minora (sed nihil in studiis parvum est) non sunt transeunda ; scribi optime ceris, in quibus facillima est ratio delendi, nisi forte visus infirmior membranarum potius usum exiget, quae ut iuvant aciem, ita creba relatione, quoad intinguntur calami, morantur manum et cogitationis impetum frangunt. Relinquendae autem in utrolibet genere contra erunt vacuae tabellae, in quibus libera adiciendo sit excursio. Nam interim pigritiam emendandi angustiae faciunt, aut certe novorum interpositione priora confundant. Ne latas quidem ultra modum esse ceras velim, expertus iuvenem studiosum alioqui praelongos habuisse sermones, quia illos numero versuum metiebatur, idque vitium, quod frequenti admonitione corrigi non potuerat, mutatis codicibus esse sublatum. Debet vacare etiam locus in quo notentur quae scribentibus solent extra ordinem, id est ex aliis quam qui sunt in manibus loci, occurrere. Inrumpunt enim optimi nonnumquam sensus, quos neque inserere oportet neque differre tutum est, quia interim elabuntur, interim memoriae sui intentos ab alia inventione declinant ideoque optime sunt in deposito. QUINTILIAN X, 31, 32, 33.

5. Account for the lack of Roman *gravitas* in the life represented by such a play as the *Trinummus*.

6. What is known of the life of Juvenal ?

PRELIMINARY HONOURS.

Greek.

Sophocles and Euripides.

1. Translate with notes:

Antigone 249–277.
746–765.
Bacchae 847–861.
1058–1069.

2. Is it possible to justify Creon's edict and the conception of authority on which his subsequent action is based?

3. Account for the complex character of the god Dionysus.

PRELIMINARY HONOURS.

Greek.

Aristophanes and Homer.

1. Translate with notes:

Homer, *Odyssey*, XI. 541–562.

Aristophanes, *Birds*, 1470–1493.
1748–1765.

2. Distinguish the probable sources from which Homer drew the materials for his Odyssey.

3. To what extent is it possible to trace an undercurrent of political design in the *Birds?*

4. Describe the Homeric house or the plot of the Odyssey.

PRELIMINARY HONOURS.

Greek.

1. Translate Thucydides III. chap. cxiii.

2. Translate into Greek :

A letter which Canute after twelve years of rule, wrote to his subjects marks the grandeur of his character and the noble conception he had formed of the kingship. "I have vowed to God to lead a right life in all things," wrote the king, "to rule justly and piously my realms and subjects, and to administer just judgment to all. If heretofore I have done aught beyond what was just, through headiness or negligence of youth, I am ready, with God's help, to amend it utterly. No royal officer, either for fear of the king or favour of any, is to consent to injustice, none is to do wrong to rich or poor, if they value my friendship and their own well-being." He especially denounces unfair exactions: "I have no need that money be heaped together for me by unjust demands." "I have sent this letter before me" he adds, "that all the people of my realm may rejoice in my well-doing; for, as you yourselves know, never have I spared, nor will I spare, to spend myself and my toil in what is needful and good for my people." GREEN.

PRELIMINARY HONOURS.

Greek.

Thucydides and Plutarch.

1. Translate:

Thucydides II., chap. 63.

Plutarch, *Solon*, chap. 11.

Themistocles, chap. 17.

2. Give some account of the working of the Athenian constitution from Cleisthenes to Pericles' death.

3. "There are reasons why Plutarch's judgment cannot be accepted without mistrust." Comment on this.

4. Trace in outline the general course of the Peloponnesian War.

FINAL HONOURS.

Greek.

Homer, Aristophanes, Pindar, Theocritus.

Translate with brief notes:

Homer, Odyssey X. 281– 301.
Aristophanes, *Birds*, 1202–1232.
Clouds, 607– 626.
Pindar. Ol. VI. 1– 21.
Theocritus, Id. II., 149–end.

FINAL HONOURS.

Greek.

Plato and Aristotle.

1. Translate: Republic 586, A,B,C.
   602, C,D.

2. Translate: Ethics, Book I, chap. vi, §§ 12, 13, 14.
   Book II, chap. iii, §§ 1, 2, 3.
   Book X, chap. viii, §§ 1–5.

3. Compare Plato's classification of constitutions with that of Aristotle and account for the difference.

4. Examine Plato's estimate of the value of art in education.

5. Is it true to say that Aristotle makes the distinction between goodness and badness a quantitative one?

PRELIMINARY, INTERMEDIATE AND FINAL HONOURS.

Deutsches Dictat.

Die Thür des Saales öffnete sich und schloss sich wieder. Andrea konnte sich ohne Gefahr aufrichten. Aber die Worte, die er gehört hatte, lähmten noch seine Sinne und Glieder. Er hörte undeutlich durch die Wand das muthwillige Lachen und die Scherze der jungen Leute; die furchtbare Nähe, in der hier Tod und Leben, Berbrechen und Leichtsinn an einander hinstreiften, sträubte ihm das Haar. Als er sich mühsam aufrichtete und die Stufen hinuntertappte, suchte seine Hand krampfhaft nach dem Dolch, den er im Gewand versteckt immer bei sich trug. Seine Lippen waren blutig, so hatte er die Zähne darin verbissen.

Aber noch war er besonnen genug, Smeraldina wieder aufzusuchen und ihr in gelassenen Worten zu sagen, dass die Gesellschaft ganz lustig anzusehen sei; aber er werde nie wieder durch die Spalte schauen, da er nur mit genauer Noth der Entdeckung durch die Gräfin und einen älteren Gast entkommen sie.

Deutsch.

PRELIMINARY, INTERMEDIATE AND FINAL HONOURS.

ZUM UEBERSETZEN.

(1, 2 ins Englische ; 3 ins Neuhochdeutsche [bloss für die Senioren bestimmt].)

1. Als er sie liebreich um den Grund dieser starren Kälte befragte, erwiderte sie, mit halbzugedrückten Augen an ihm vorbeisehend und mit den seidenen Ohren ihres Hündchens spielend : wie man in den Wald rufe, so schalle es heraus, und man erkenne die Menschen daran, welche Gesellschaft sie sich suchten. Und da er ernstlicher in sie drang, diese tiefsinnigen Sprüche zu deuten und auf ihn und sie selbst anzuwenden, versetzte sie mit einer ausbrechenden Leidenschaftlichkeit, in der das ganze enge, eitle und ungütige Herz des verzogenen Kindes zu Tage kam : sie habe keine Lust, mit aussätzigem Volk und unehrlichen fahrenden Leuten sich einzulassen, und wenn ihm ein solcher Umgang lieber sei, als der ihre, möge er's beizeiten sagen, sie wisse dann, woran sie sei, und könne darnach thun.

2. Sie zählt so nicht zu den Begriffswissenschaften, wie Logik oder Mathematik, die aus unwiderleglichen Grundgedanken auf analytischem Wege zur Entdeckung und systematischen Anordnung der in ihnen enthaltenen Einzelwahrheiten gelangen. Sie ist keine von den Gesetzeswissenchaften, wie Physik oder Chemie, die aus den wahrgenommenen Veränderungen im Gebiete der Sinnenwelt die in aller Zeit unveränderliche Wirkungsweise der an Erscheinung und Veränderung der Dinge betheiligten Kräfteträger erschliessen. Sie ist aber, wie jede andere Philologie, wie Kunst- oder Staatengeschichte, Teil eines ausgedehnten dritten Wissenschaftsgebietes, der Geschichtswissenschaft, die eine begründete und allseitige Kenntnis herbeiführt von den geistigen Äusserungen der Menschen, soweit sie Überlieferungen mit uns verbinden, und bei reichlicher Überlieferung zu Einsichten von gleicher Unwiderlegbarkeit und Gewissheit gelangt, wie die Gesetzeswissenschaften. Die romanische Philologie ist beteiligt an der Aufschliessung der geistigen Vergangenheit der Romanen, wie die deutsche Philologie an der der Germanen, die classische an der der Römer und Griechen, die Staatengeschichte an der der Geschicke von Staat und Staaten, die menschliches Handeln bewirkte u. s. w.

3. (*a*) Dô suochte er nâch den vergen wider unde dan.
er hôrte wazzer giezen: losen er began.
in einem schœnen brunnen daz tâten wîsiu wîp:
die wolden sich dâ küelen unde badeten ir lîp.

Hagene wart ir innen, er sleich in tougen nâch.
dô si daz versunnen, dô wart in dannen gâch.
daz si im entrunnen, des wâren si vil hêr.
er nam in ir gewæte: der helet schadete in niht mêr.

Dô sprach daz eine merewîp, Hadeburc was si genant:
„edel ritter Hagene, wir tuon iu hie bekant,
swenne ir uns, degen küene, gebt wider unser wât,
wie iu zuo den Hiunen disiu hovereise ergât."

(*b*) Cot almahtîco, dû himil enti erdi gauuorahtôs, enti dû mannun sô manac coot forgâpi, forgip mir in dîno ganâdâ rehta galaupa enti côtan uuilleon, uuîstôm enti spâhida enti craft, tiuflun za uuidarstantanne enti arc za piuuîsanne enti dînan uuilleon za gauurchanne.

PRELIMINARY, INTERMEDIATE AND FINAL HONOURS.

Deutsche Prosa.

I.

N.B.—(1) ist nur für die Senioren.

Zum Uebersetzen ins Deutsche :

1. Thou hast it now : King, Cawdor, Glamis, all
As the weird woman promised ; and, I fear,
Thou play'dst most foully for't : yet it was said,
It should not stand in thy posterity ;
But that myself should be the root, and father
Of many kings. If there come truth from them,
(As upon thee, Macbeth, their speeches shine.)
Why, by the verities on thee made good,
May they not be my oracles as well,
And set me up in hope ? But, hush ; no more.

2. The history of the various nations of mankind may be looked at in many and very differen ways ; and the importance of different parts of history varies widely according to the way in which they are looked at. One who wishes to trace out the history of religion, or of language, or of manners and customs, will often find as much that is useful for his purpose among savage nations, who have played no important part in the world, as among the most famous and civilized people. But researches of this sort cannot be put together into a continuous tale ; they are not *history* strictly so called.

3. The Duke became so attached to Goethe that he was resolved they should never part, and accordingly he expressed to the high officials of his Government his wish that his friend should be admitted into the public service. The proposal met with vehement opposition, for grave old councillors found it impossible to believe that a poet could be capable of attending to business. The Duke, however, warmly supported by his mother, insisted on having his own way. The elder Goethe strongly disliked the idea of his son entering the service of a prince. Brought up in a free imperial city, he had a decidedly Republican feeling, subject, of course, to loyalty to the Emperor, which was rather a nominal that a real obligation. Moreover, he has always hoped that his son would become an eminent Frankfort lawyer, and that he himself and his wife would have the pleasure of welcoming to their home a daughter-in-law whom they could love. Goethe, however, felt that it would be impossible for him to go back to Frankfort.

He had not been happy there ; he still disliked the work of an advocate ; he longed to be independent ; and he knew that he would receive every consideration from the Duke, the Duchess, and the Duchess Dowager, for all of whom he had a sincere regard.

II.

Themata zu einem deutschen Aufsatz :

1. „Das Beste in der Welt ist die Arbeit."

2. „Was du ererbt von deinen Vätern hast,
Erwirb es, um es zu besitzen."

3. Wie man die letzten Weihnachtsferien zugebracht hat !

PRELIMINARY, INTERMEDIATE AND FINAL HONOURS.

Deutsche Literatur—Poesie.

I.

(*a*) Hätt' ich doch auch *Ansprüche machen* können,
Des Lebens mich, der Erde Lust zu freun,
Doch *zog* ich strenge Königspflichten *vor*.
Und doch gewann sie aller Männer *Gunst*,
Weil sie *sich* nur *befliss*, ein Weib zu sein,
Und *um* sie *buhlt* die Jugend und das Alter.

(*b*) Fürchtet nichts von ihm. Nicht er
Will Euren *Untergang*—Sein Werk ist es,
Dass Euch die Königin die *Zusammenkunft*
Bewilligt.

(*c*) Du alte Rolle, du wirst angeraucht,
So lang an diesem Pult die trübe Lampe schmauchte.
Weit besser hätt' ich doch mein Weniges verprasst,
Als, mit dem Wenigen belastet, hier zu schwitzen!
Was du ererbt von deinen Vätern hast,
Erwirb es, um es zu besitzen!
Was man nicht nützt, ist eine schwere Last;
Nur was der Augenblick erschafft, das kann er nützen.

(*d*) O glaube mir, der manche tausend Jahre
An dieser harten Speise kaut,
Dass von der Wiege bis zur Bahre
Kein Mensch den alten Souerteig verdaut.
Glaub' unser einem, dieses Ganze
Ist nur für einen Gott Gemacht!
Er findet sich in einem ew'gen Glanze,
Uns hat er in die Finsterniss gebracht,
Und euch taugt einzig Tag und Nacht.

II.

1. Es wiad ersucht,

(*a*) den Zusammenhang jeder der oben angeführten Auszüge mit ihrem Kontexte und ihrem Werke festzustellen, (*b*) die in Kursivschrift gedruckten worte oder Zeilen zu erklären, (*c*) und (*d*) ausführlich zu kommentieren.

2. Wie weicht „Maria Stuart" von der Geschichte ab, und warum?

3. Welches sind die Stadien Marias Entwickelung in dem Stücke, und die damit verbundenen dichterischen Antithesen?

4. Inwiefern ist Maria die Königen von Schottland oder das ewige Weib?

5. Was ist der Unterschied zwischen dem „Faustfragment" und „Faust I"? Was ist der „Urfaust"?

6. Bespreche man Faust's philosophische, sowie seine religiöse Ansichten unter Hinweisung auf betreffende Stellen oder deren Anführung.

7. Vergleiche man die „Wette" mit dem „Vertrag" und alle Beide mit der endgiltigen Lösung.

8. Was ist eine Ballade? Eine Romanze?
Vergleiche man Goethe und Schiller als Balladendichter. In welcher der gelesenen Balladen ist Goethe autobiographisch, und wie? Inhaltsangabe des „Zauberlehrling" unter Angabe der Quelle, und der Lehre?

9. Verweise man in den betreffenden Gedichten auf Stellen, wo der Dichter der Idee oder der Situation den Rhythmus anpasst.

PRELIMINARY, INTERMEDIATE AND FINAL HONOURS.

Deutsche Literatur—Prosa.

I.

(*a*) Als sie nur immer sein können! — Die *Ausführung* ist Leuten *anvertrauet, auf die ich mich verlassen kann.* Der Weg geht *hart an der Planke* des Tiergartens vorbei. Da *wird* ein Teil den Wagen *angefallen haben, gleich am* um ihn zu plündern. Und ein anderer Teil, wobei einer von meinen Bedienten ist, wird aus dem Tiergarten gestürzt sein, den Angefallenen gleichsam zur Hilfe. Während des Handgemenges, *in das* beide Teile zum Schein *geraten*, soll mein Bedienter Emilien ergreifen, als ob er sie retten wolle, und durch den Tiergarten in das Schloss bringen. — So ist die *Abrede.*— Was sagen Sie nun ?

(*b*) Der praktische, *nüchterne* Junge, der alles auf die Uhl und ihre Bewohner bezog und auf die Verhältnisse des Dorfes, konnte weder die Sünde noch die Gnade verstehen, die da gelehrt wurde. Die Sünde kam ihm viel zu spät, und die Gnade kam ihm viel zu früh. Die Sünde fing ja erst mit Diebstahl, Raub und Totschlag an, und die Gnade war allzubald da, nämlich : wenn einer seine Sünde, auf den Herrn warf.' Jörn Uhl konnte diesen lieben Gott nicht verstehen. Gott schien ihm ein ganz unpraktischer Rechenmensch zu sein, der in seiner Stube seine Bücher stolz in Ordnung hielt und draussen von seinen Leuten unheimlich betrogen wurde.

(*c*) Noch seltener war Hubert in Kehl oder einer der umliegenden Ortschaften *aufgetaucht*, hatte dann nur *einsilbig* seine Geschäfte *besorgt* und die ältesten Freunde vermieden. *Es hiess*, er habe eine unglückliche Liebschaft mit einer Wittwe gehabt, die ihm *einen Korb gegeben.* Soviel hatte die Wirtschafterin *sich zusammengereimt.* Wer es sei und *aus welchen Gründen* sie den stattlichen *Freier abgewiesen*, darüber *zerbrach man sich* vergebens *den Kopft.*

(*d*) Ja wohl, fuhr er fort, dort an jenem Tische, in der Nacht, wo ich Sie zuerst kennen lernte, schrieb ich einen Scheidebrief an das Leben. Da liegt er noch, und ich, wie Sie sehen, habe mich anders besonnen. Ob ich Ihnen sehr dankbar dafür sein muss, ist eine andere Frage. *Nichtsein* mag auch seine *Schattenseite* haben. Aber nicht leben und nicht sterben können, so *armselig* zwischen zwei Stühlen sitzen—genug! *Was konnen Sie dafür*, dass das Leben, das Sie gerettet haben, nicht mehr der Mühe werth war.

1. Zeige man die Beziehung jeder der oben zitierten Stellen zu ihrem Kontexte und ihrem Werke an; und erkläre man die in Kursivschrift gedruckten Worte und Wendungen, und kommentiere man (*b*) umfassend.

2. Folgende Wendungen sind auf Deutsch zu erklären:

Und ich fürchte, die werden ihr den Rest geben — Lassen Sie die Anfertigung noch anstehen.—Das räume ich ein. . . . Weil dir der Ausgang Recht gibt.—einen so wichtigen Mitbewerber den Rang abzulaufen.—Nun was liegt daran ?—Aber sie, (die Natur) vergriff sich im Thone.—Lass dir von den dummen Jungen nichts vorschnacken.—Wenn ich sage, dass du dir einen tüchtigen Aal geholt hast.— . . . fuhr er auf mich los und sagte.—Wie fein ich mit Geld hausieren kann.—seit sie seiner feinen und redlichen Seele auf den Grund gesehen.

II.

1. Vergleiche man, was den Aufbau angeht, „Emilia Galotti" mit „Maria Stuart," und alle Beiden mit „Macbeth." Wie verwendet Lessing hier die Regeln seiner „Dramaturgie"?

2. Wie bewirkt die Katastrophe in „Emilia Galotti," sowie in „Maria Stuart" die Erregung von Mitlied und Furcht? Warum so?

3. Beurteile man „Jörn Uhl" der Form und dem Inhalt nach.

4. Welchen Wert legt Frenssen eigener Erfahrung der Buchgelehrsamkeit gegenüber, und der Leitung der Jugend bei? Weise man auf diesbezügliche Stellen hin, und gebe man seine eigene Meinung darüber an.

5. Beschreibe man kurz die Landschaft des „Jöhn Uhl."

6. Gebe man die Gliederung oder Disposition von „der Stickerin von Treviso“ oder von „Vetter Gabriel“ an.

Wir verlangen von einer Novelle wie von jeder wirklichen dichterischen Schöpfung, dass sie uns ein bedeutsames menschen Schicksal, einen seelischen, geistigen oder sittlichen Konflict vorführe, uns durch einen nicht alltäglichen Vorgang eine neue Seite der Menschennatur offenbare. (Heyse)

7. Inwiefern erfüllen die oben genannten Novellen diese Forderungen?

INTERMEDIATE AND FINAL HONOURS.

Deutsche Literatur—Poesie.

NOTA: Die Intermediär-Kandidaten wollen nur die sie angehenden Stellen und Fragen behandeln.

I.

(*a*) Hat *sich* der *Landmann* solcher That *verwogen*,
Aus eignem Mittel, ohne Hilf' der Edeln,
Hat er der eignen Kraft so viel vertraut—
Ja, dann bedarf es unserer nicht mehr ;
Getröstet können wir zu Grabe steigen,
Es lebt n a ch — durch andre Kräfte will
Das Herrliche der Menschheit sich erhalten.

(*b*) Euch
Allein erzähl' ich sie. Der frommen Einfalt
Allein erzähl' ich sie. Weil die allein
Versteht, *was sich der gottergebne Mensch*
Für Thaten abgewinnen kann.

(*c*) Das Unglück treibt mich,
Die feindliche Zusammenkunft der Dinge.
Es denkt der Mensch die freie That zu thun,
Umsonst ! Er ist das Spielwerk nur der blinden
Gewalt, die aus der eignen Wahl ihm schnell
Die furchtbare Nothwendigkeit erschafft.

(*d*) Ein unsichtbarer Feind ist's, den ich fürchte,
Der in der Menschenbrust mir widersteht,
* * * * * *
Das ganz
Gemeine ist's, das ewig Gestrige,
Was immer war und immer wiederkehrt,
Und morgen gilt, weil's heute hat gegolten.

(*e*) Ich werde dich in dieser Not nicht lassen ;
Und wenn es dir an *Fassung* ganz *gebricht*,
So soll mir's *an Geduld* gewiss *nicht fehlen.*

(*f*) Unbeachtet im Gedränge
Kam jetzt ein *schwerfäll ger* Wagen,
Sassen drin zwei *schwarze* Damen,
Doch der Pferde Zügel *lenkt'* der
Treue Anton, sorgsam rief er.

1. Zeige man den Zusammenhang der oben angeführten Stellen mit ihren Werken ; deute man die allgemeine Geltung der ersten vier ; und erkläre man die in Kursivschrift gedruckten Worten.

II.

1. Erweise man durch die in Betracht kommenden Werke Goethes und Schillers, was diese Dichter von dem Idealismus und Realismus in der Kunst, sowie im Leben denken. Wie sind genannte Dichter in dieser Hinsicht zu bezeichnen?

An die Stelle der geforderten inneren Nothwendigkeit der Dinge tritt äussere Nötigung.

2. Bespreche man obige Worte mit Bezug auf „Wallenstein" und "Maria Stuart."

3. Welchen Rang nimmt „Wallenstein" ein unter Schillers Dramen, und in der deutschen Tragödie überhaupt. Gebe man eine kurze Meinung an über die Form, sowie über die Frage, ob das Werk eine einheitliche Tragödie ist oder eine Trilogie.

4. Was ist die Bedeutung „des Lagers"?

5. Welche Rollen schreibt Schiller der Freiheit und dem Schicksal zu in den uns anbetreffenden Dramen?

6. Wie stellt der Dichter die „Schönheit" in seiner „Iphigenie" dar?

Denn die Unsterblichen lieben der Menschen
Weit verbreitete gute Geschlechter, u. s. w.

———

Es fürchte die Götter
das Menschengeschlecht! u. s. w.

7. Wo kommen diese Worte vor? Vervollständige man beide Stellen durch Anführung des Fehlenden, u. zeige man wie der Dichter den Widerspruch löst.

8. Was sind die *Affekte*? die Seelenvermögen? Wie kommen Letztere in Faust und Tasso vor? Was ist ihr normales Verhältniss im Menschen?

INTERMEDIATE AND FINAL HONOURS.

Deutsche Literatur—Prosa.

N.B.—Die Intermediär-Kandidaten wollen nur die sie angehenden Stellen und Fragen behandeln.

I.

(*a*) Dem Professor pochte das Herz vor Freude über den festen *Bedacht*, mit welchem sein Weib das *Verständniss seiner Thätigkeit suchte*. Denn es ist das Loos des Gelehrten, dass Wenige mit *Herzlichem Antheil*, Mühe, Kampf und Verdienst seines *Schaffens* betrachten. *Der Welt gilt er für* einen harten Baugehilfen. Was er mit *ausdauernder Kraft* gebildet, das wird sofort als Baustein *verwandt* zu dem unermesslichen Hause der Wissenshaft, an welchem das Geschlecht der Erde seit Jahrtausenden arbeitet.

(*b*) Der Abend lag über dem Thurmschloss, die Fledermaus flatterte aus ihrem Schlupfwinkel in der geräumten Kammer, sie zog ihre Kreise im Hofraum des Schlosses und schnalzte verwundert, dass sie in einer leeren Behausung erwacht war. Die Eule flog in die Thurmluke und suchte mit runden Augen nach der alten Stuhllehne, von der sie sonst auf die dummen Mäuse gelauert hatte, und die Totenuhr, die der Gelehrte aus der einsamen Kammer unter die lebenden Menschen hinabgetragen hatte, nagte und tickte auf der Treppe und in den Zimmern des Schlosses.

(*c*) Nichts, was in der Seele dieses Mannes *vorging*, war *erkennbar* an seinem *äussern Wesen* ; nur der scharf geschnittene Mund, so fest er die Lippen zusammen zog, verrieth manchmal durch leises unwillkürliches Zucken, dass dieses *starre leichenfahle* Antlitz nicht eine *Todtenmaske war*.

(*d*) Warum er ihn — freiwillig ! — wieder fahren liess — ist unerklärlich, Hätte er die Fliehenden verfolgt, er hätte mich und meine ganze Schar *über d n Haufen* und in das Meer *gerannt* : — so gross war der Schreck der Unsrigen und die Kraft des vandalischen Ansturms : dann waren auch Lager und Fussvolk unrettbar verloren.

(*e*) Es war Viel zu *richten und schlichten nach Vertreibung* der Hunnen. *Sie unterzog sich dem gerne*, ihr beweglicher Geist und die Freude am eigenen Eingreifen erleichterten die Sorge des Regierens. Wittwen und Waisen der gefallenen Heerbannmänner kamen, und *wem der rothe Hahn aufs Dach der Hütte geflogen*, und wem die junge Saat von Rosesshuf zerstampft war : es ward Hilfe geschafft, so viel möglich !

1. Zeige man den Zusammenhang jeder der oben angegebenen Stellen mit ihrem Kontexte, sowie ihrem Werke, und erkläre man die in Kursivschrift gedruckten Worte. Uebersetze man (*b*).

2. Was ist der Wert der in (*a*) enthaltenen Anschauung? Vergleiche man mit „Faust."

3. Ist der in (*b*) angeschlagene Ton mit irgend einem Grundgedanken des Werkes in Einklang?

II.

1. Welches sind die verschiedenen Stände die in „der Verlorenen Handschrift" abgespiegelt sind, und wie künstlerisch sind sie in einander geflochten?

2. Vergleiche man Dahn und Scheffel als historische Romandichter, und unterscheide man genau in den beiden betreffenden Werken die historische Unterlage von dem durch den Dichter künstlerisch Hinzugefügten.

3. Was ist der Wert von Lessings Meinung über den Gebrauch der Schilderung? Verweise man auf besonders hervorragende Schilderungen in den Gelesenen Werken unter Angabe ihrer Uebereinstimmung mit Lessings Regel.

4. Wie wird das „Gesetz der Vergeltung" in „Gelimer" behandelt? Wie in „Iphigenie," und in „Wallenstein"? Wie im wirklichen Leben?

PRELIMINARY, INTERMEDIATE AND FINAL HONOURS.

Geschichte der deutschen Literatur.

1. Teile man die Geschichte der deutschen Literatur bis zur Mitte des 18ten Jahrhunderts ein in Hauptperioden mit kurzer Charakteristik jeder Einzelnen.

2. Wie haben die verschiedenen grossen Kriege, an den Deutschland sich beteiligt hat, auf die deutsche Literatur gewirkt? Wie sind ungleichartige Wirkungen zu erklären?

3. Erwähne man Mittelpunkte, wo die deutsche Literatur seit dem Beginn des 17ten Jahrhunderts besonders gepflegt ist. Wie sind diese Mittelpunkte entstanden, und wer waren da die Hauptvertreter der Literatur?

4. Wie entstand die romantische Bewegung? Wie lange hat sie gedauert, und wie hat sie die Kunst im allgemeinen, und das politische Geschick des Landes im Besonderen beeinflusst?

5. Skizziere man die literarischen Productionen Goethes und Schillers während der Zeit ihrer gemeinsamen Tätigkeit, sowie Goethes Werk von dann an bis auf seinen Tod.

6. Würdige man kurz u. bündig Lessing und Klopstock betreffs ihres Einflusses?

7. Biographische und kritische Anmerkungen werden ersucht uber: Platen, Rückert, Uhland, die Brüder Grimm, Ludwig, Laube, Geibel, Gustav Freitag, Niebuhr, Bertha von Suttner, G. Hauptmann, Frenssen; *Agathon*, *Levana*, *Michael Kohlhaas*, *Götterdämmerung*, *Ein Kampf um Rom*, Mundartendichtung, Bayreuth.

INTERMEDIATE AND FINAL HONOURS.

Deutsche Philologie.

NOTA: Die Intermediär-Kandidaten wollen nur die sie angehenden Teile berücksichtigen.

I.

Uebersetze man ins Neuhochdeutsche:

(*a*) *Insaihvith* du *fuglam* himinis, thei ni *saiand* nih *sneithand*, nih *lisand* in *banstins*, jah atta izvar sa ufar himinam fodeith *ins*. Niu jus mais *vulthrizans* sijuth *thaim?*

Ith hvas izvara maurnands mag anaaukan ana vahstu seinana aleina aina?

Jah bi vastjos hva *saurgaith? Gakunnaith blomans haithjos*, hvaiva *vahsjand*; nih arbaidjand nih *spinnand*.

(*b*) Sie éigun in zi nuzzi so samalicho uuizzi,
(in félde ioh in uualde so sint sie sama balde),
Rihiduam ginuagi, ioh sint ouh filu kuani,
zi uuafane snelle so sint thie thégana alle.
Sie buent mit giziugon, ioh uuarun io thes giuuon,
in guatemo lante: bi thiu siht sie unscante.

(*c*) Giskerit ist thin hieruuist So lango so *uuili* Krist:
Uuili her unsa hinavarth Thero *habet* her giuualt.
So uuer so hier in ellian *Giduot* godes uuillion,
Quimit he gisund uz, Ih gilonon imoz;
Bilibit her thar inne, Sinemo *kunnie*.

(*d*) Sie *heten* dâ ir friunde zwelf küener man,
daz starke risen wâren: waz kundez si vervân?
die *sluoc* sît mit zorne diu Sîvrides hant,
und recken siben hundert *dwang* er von Nibelunge lant

Mit dem guoten swerte, daz *hiez* Balmunc.
durch die starken vorhte vil manec recke junc,
die si zem swerte hêten und an den küenen man,
daz lant zuo den bürgen si im tâten undertân.

Dar zuo die rîchen künege die sluog er beide tôt.
er *kom* von Albrîche sît in grôze nôt.
der wânde sîne herren rechen dâ zehant,
unz er die grôzen sterke sît an *Sîvride vant*.

(*e*) Nu gie diu minneclîche alsô der morgenrôt
tuot ûz den trüeben wolken. dâ schiet von manegar nôt
der si dâ truog in herzen und lange het getân :
er sach die minneclîchen nu vil hêrlîchen stân.

1. Es wird ersucht in Bezug auf oben in kursivschrift gedruckten Worten, (*a*) Grundformen aller Verba ; (*b*) vollständige Abwandlung des Präs. und Prät. Ind. von *insaihvith* (*a*), *quimit* (*b*), *sluoc* (*d*), *heten* (*d*) in allen 3 sprachen ; (*b*) Abwandlung der Nomina und Pronomina, letztere auch in den betreffenden drei Sprachen.

2. Bezeichne man die Wörter in (*a*) und (*c*), die gemeingermamsch sind.

3. Was ist der Zusammenhang von (*d*) mit seinem Kontexte ?

II.

1. Wie zeigt die jetztige deutsche Sprache (wie auch die verwandten Sprachen) die Hauptstufen, die sie in ihrer Entwicklung durchgemacht hat?

2. Welches sind die Kennzeichen des M.H.D. dem A.H.D. gegenüber, so wie des N.H.D. dem M.H.D. gegenüber?

3. Wie sind die Wörter „Deutsch" und „Hochdeutsch" entstanden ?

So drohte unsere Schriftsprache in vier Sprachgruppen auseinanderzufallen. In dieser Verwirrung tritt Luthers mächtige Persönlichkeit herein.

4. Erkläre man obige Sätze.

5. Was sind die „Eddas" ? Erkläre man das Mythologische im Nibelungenlied.

HONOURS.

French.

Literature, I.

[Only 4 of the following to be answered by Preliminary Honours, and only 5 by Intermediate and Final Honours.]

1. The treatment of parental love in the dramas you have read.

2. Account for the importance of the classical revival in France.

3. Compare briefly "Horace" and "Ruy Blas" from the point of view of (*a*) universality of theme, (*b*) character-drawing, (*c*) breadth of tragic conception.

4. Discuss the truth of P. de Julleville's characterization of Pierre Loti as "paysagiste sentimental." Is this sufficient?

5. Account for the weakness of Voltaire's "Mérope."

6. A sketch of Beaumarchais, explaining his relation to the century in which he lived.

[Alternative options for Preliminary Honours.]

7. Explain and account for the religious origin of the Drama, especially in France.

8. Sketch the outstanding features of the "Age of Glory."

[Alternative option for Intermediate Honours.]

9. Compare "L'Avare" and "Eugénie Grandet" as containing the elements of tragedy.

HONOURS.

French.

Literature, II.

[Preliminary Honours to answer 4 questions only. Intermediate and Final Honours to answer 5 questions only.]

1. In what way is art an imitation of nature?

2. Sketch and account for the metrical changes introduced by the Romanticists.

3. Explain with instances from France the close connection of social and political life with the literature.

4. What are the claims of La Bruyère to greatness?

5. Give a short account of Chateaubriand. Mme. de Sévigné. Montesquieu.

6. To what extent is Molière's humour characteristic of "l'esprit gaulois"?

[Alternative options for Preliminary Honours.]

7. Discuss briefly the reason for the influence of J. J. Rousseau on his century, particularly on the Revolutionists.

8. Analyse the humour and permanent value of Labiche's "La Grammaire."

[Alternative option for Intermediate Honours.]

9. A short study of Racine's "Iphigénie."

HONOURS.

French.

Dictation.

Beaucoup de serfs, enrichis par leur travail, avaient fini par se racheter, et de là était venue la bourgeoisie. Cette dernière, vassale du roi ou d'un autre seigneur, c'est-à-dire soumise à certaines redevances, tendait à s'émanciper chaque jour, et formait déjà ce tiers-état ou troisième état qui devait un jour primer les deux autres. Au siècle, où se passe notre histoire, la puissance des communes ou réunions de bourgeois commençait déjà à devenir redoutable, et toute l'ambition du serf était d'en faire partie. Le clergé, qui avait favorisé les premiers affranchissements, continuait à travailler à la destruction du servage, en prenant le parti du faible contre le fort et proclamant l'égalité des hommes devant Dieu; mais la noblesse, de son côté, qui sentait que la domination lui échappait, était devenue plus jalouse de ses droits, et employait tour à tour, pour les maintenir, l'extrême indulgence ou l'excessive sévérité. Bien que le système féodal fût menacé, il était donc encore entier, et d'autant plus visible qu'il se trouvait en face d'un nouvel ordre de choses.

Ainsi, pour nous résumer, la nation comprenait alors quatre classes distinctes: les nobles, les religieux, les bourgeois et les serfs. Au-dessus de tout était la puissance royale, qui grandissait chaque jour au détriment des seigneurs.

SOUVESTRE "*Le Serf.*"

HONOURS.

French.

Unseen Translation.

[No. 4 for Final Honours only; No. 3 for Intermediate Honours only.]

Traduisez en anglais :

(1) M. Maeterlinck est enivré d'inconscient. La vie obscure de l'âme, la vie végétative de l'âme, la vie *incunabulaire* de l'âme, la pensée avant qu'il ait été pensée, le sentiment avant qu'il ait été senti, le mouvement psychique avant qu'il y ait eu frémissement, les rides insensibles du lac de l'âme : voilà pour lui l'âme humaine, à l'état pur, non dégradée, non altérée, non vulgarisée, voilà la vraie vie psychique.

Il lui donne les noms les plus beaux. Il l'appelle Vie supérieure, Vie transcendantale, Vie divine, Vie absolue. Il y descend avec volupté, s'y baigne en des fraîcheurs d'aurore, s'y délecte en des obscurités paisibles de forêts vierges. Jamais je n'ai mieux compris le sens symbolique du "*frigus opacum*" de Virgile, qui, du reste, n'a mis au "*frigus opacum*" aucun sens symbolique.

Il écoute avec ravissement ce murmure sourd des profondeurs du *moi*, qui arrive à son oreille comme un son très lointain et indistinct, qu'il bénit d'être indistinct et qu'il serait bien fâché qui fût précis. Ce qui l'irrite c'est tout ce qui est démêlé, tout ce qui est clair, tout ce qui se comprend, tout ce qui se sait. "Ce que nous savons n'est pas intéressant." Quel joli mot! Et c'est qu'il est vrai! Si nous étions sûrs de quelque chose, nous n'y aurions aucun intérêt. Nous ne nous passionnons pas pour un proverbe. Or, ce que nous savons de science certaine, ce sont proverbes intellectuels. *Émile Faguet.*

(2) La comtesse allongea son petit pied chaussé d'une pantoufle en peau mordorée, dans la laine soyeuse du tapis-gazon placé sous la table pour neutraliser le froid contact de la mosaïque de marbre blanc et de brocatelle de Vérone qui pavait la salle à manger, fit un eger mouvement d' épaules comme glacée par un dernier frisson de fièvre, et fixant ses beaux yeux d'un bleu polaire sur le convive qu'elle prenait pour son mari, car le jour avait fait évanouir les pressentiments, les terreurs et les fantômes nocturnes, elle lui dit d'une voix harmonieuse et tendre, pleine de chastes calineries, une phrase en polonais ! ! ! Avec le comte elle se servait souvent de la chère langue maternelle aux moments de douceur et d'intimité,

surtout en présence des domestiques français à qui cet idiome était inconnu.

Le Parisien Octave savait le latin, l'italien, l'espagnol, quelques mots d'anglais ; mais, comme tous les Gallo-Romains, il ignorait entièrement les langues slaves. — Les chevaux de frise de consonnes qui défendent les rares voyelles du polonais lui en eussent interdit l'approche quand bien même il eût voulu s'y frotter. — A Florence, la comtesse lui avait toujours parlé français ou italien, et la pensée d'apprendre l'idiome dans lequel Mickiewicz a presque égalé Byron ne lui était pas venue. On ne songe jamais à tout !

GAUTIER "*Avatar.*"

(3) Dans le dépôt où Claude Gueux était enfermé, il y avait un directeur des ateliers, espèce de fonctionnaire propre aux prisons, qui fait en même temps une commande à l'ouvrier et une menace au prisonnier, qui vous met l'outil aux mains et les fers aux pieds. Celui-là était lui-même une variété de l'espèce, un homme bref, tyrannique, obéissant à ses idées, toujours à courte bride sur son autorité; d'ailleurs, dans l'occasion, bon compagnon, bon prince, jovial même et raillant avec grâce; dur plutôt que ferme; ne raisonant avec personne, pas même avec lui; bon père, bon mari, sans doute, ce qui est devoir et non vertu; en un mot, pas méchant, mauvais. C'était un de ces hommes qui n'ont rien de vibrant ni d'élastique, qui sont composés de molécules inertes, qui ne résonnent au choc d'aucune idée, au contact d'aucun sentiment, qui ont des colères glacées, des haines mornes, des emportements sans émotion, qui prennent feu sans s'échauffer, dont la capacité de calorique est nulle, et qu'on dirait souvent faits de bois: ils flambent par un bout et sont froids par l'autre. La ligne principale, la ligne diagonale du caractère de cet homme, c'était la tenacité. Il était fier d'être tenace, et se comparait à Napoléon. Ceci n'est qu'une illusion d'optique. Il y a nombre de gens qui en sont dupes et qui, à certaine distance, prennent la tenacité pour de la volonté, et une chandelle pour une étoile. Quand cet homme donc avait une fois ajusté ce qu'il appelait sa volonté à une chose absurde, il allait tête haute et à travers toute broussaille jusqu'au bout de la chose absurde.

V. HUGO "*Claude Gueux.*"

Reproduisez en français moderne :

(4) Li cons Rodlanz se jut dessoz un pin,
Envers Espaigne en at tornét son vis.
De plusors choses a remembrer li prist :
De tantes terres come li bers conquist,
De dolce France, des homes de son ling,
De Charlemagne, son seignor quil nodrit,
E des Francis dont il est si cheriz.
Ne puet muder ne plort e ne sospirt;

Mais sei medesme ne vuelt metre en oblit
Claimet sa colpe, si priët Dieu mercit :
" Veire paterne, qui onques ne mentis,
Saint Lazaron de mort resurrexis
E Daniël des lions guaresis,
Guaris de mei l'aneme de toz perilz
Por les pechiez quez en ma vide fis !"
Son destre guant a Dieu en porofrit,
Et de sa main sainz Gabriël l'at pris.
Dessour son bras teneit lo chief enclin;
Jointes ses mains est alez a sa fin.
Dieus li tramist son angele cherubin,
Et saint Michiel de la mer del peril,
Ensemble od els sainz Gabriëls i vint :
L'aneme del comte portent en paredis.

"*Chanson de Roland.*"

HONOURS.

French.

Literature, II.—Intermediate Honours.

Translate into English:

(*a*) HERMIONE.—Tais-toi, perfide,
Et n'impute qu'à toi ton lâche parricide.
Va faire chez tes Grecs admirer ta fureur:
Va, je la désavoue, et tu me fais horreur.
Barbare, qu'as-tu fait? avec quelle furie
As-tu tranché le cours d'une si belle vie?
Avez-vous pu, cruels, l'immoler aujourd'hui,
Sans que tout votre sang se soulevât pour lui?
Mais parle: de son sort qui t'a rendu l'arbitre?
Pourquoi l'assassiner? qu'a-t-il fait? à quel titre?
Qui te l'a dit? —*Andromaque*, 1533-1543.

(*b*) Maintenant, le cercueil est une transition peu redoutée. L'avenir, qui nous attendait par delà le *Requiem*, a été transporté dans le présent Arriver *per fas et nefas* au paradis terrestre du luxe et des jouissances vaniteuses, pétrifier son cœur et se macérer le corps en vue de possessions passagères, comme on souffrait jadis le martyre de la vie en vue de biens éternels, est la pensée générale! pensée d'ailleurs écrite partout, jusque dans les lois, qui demandent au législateur: "Que payes-tu?" au lieu de lui dire: "Que penses-tu?" Quand cette doctrine aura passé de la bourgeoisie au peuple, que deviendra le pays? —*Eugénie Grandet.*

(*c*) En même temps naissait l'esprit d'examen et de curiosité. Ces grandes catastrophes étaient aussi de grands spectacles, de frappantes péripéties. C'était le nord ruant sur le midi; l'univers romain changeant de forme, les dernières convulsions de tout un monde à l'agonie. Dès que ce monde fut mort, voici que des nuées de rhéteurs, de grammairiens, de sophistes, viennent s'abattre, comme des moucherons, sur son immense cadavre. On les voit pulluler, on les entend bourdonner dans ce foyer de putréfaction.

(*d*) Quoi que vous écriviez, évitez la bassesse:
Le style le moins noble a pourtant sa noblesse.
Au mépris du bon sens, le burlesque effronté
Trompa les yeux d'abord, plut par sa nouveauté.
On ne vit plus en vers que pointes triviales;
Le Parnesse parla le langage des halles;
La licence à rimer alors n'eut plus de frein;
Apollon travesti devint un Tabarin.
Cette contagion infecta les provinces,
Du clerc et du bourgeois passa jusques aux princes.

HONOURS.

French.

Literature, I.

Translate into English :

(*a*) Resté seul contre trois, mais en cette aventure
Tous trois étant blessés, et lui seul sans blessure,
Trop faible pour eux tous, trop fort pour chacun d'eux,
Il sait bien se tirer d'un pas si dangereux;
Il fuit pour mieux combattre, et cette prompte ruse
Divise adroitement trois frères qu'elle abuse.
Chacun le suit d'un pas ou plus ou moins pressé,
Selon qu'il se rencontre ou plus ou moins blessé;
Leur ardeur est égale à poursuivre sa fuite;
Mais leurs coups inégaux séparent leur poursuite.

(*b*) ÉRIPHILE—Oui, Seigneur; et sans compter le reste,
Pouvez-vous m'imposer une loi plus funeste
Que de rendre mes yeux les tristes spectateurs
De la félicité de mes persécuteurs ?
J'entends de toutes parts menacer ma patrie;
Je vois marcher contre elle une armée en furie;
Je vois déjà l'hymen, pour mieux me déchirer,
Mettre en vos mains le feu qui la doit dévorer.
Souffrez que loin du camp et loin de votre vue,
Toujours infortunée et toujours inconnue,
J'aille cacher un sort si digne de pitié
Et dont mes pleurs encor vous taisent la moitié.

(*c*) Un grand coup de sifflet, l'ébranlement bruyant des roues,—la grand'mère passa.—Lui, contre cette barrière, agitait avec une grâce juvénile son bonnet à rubans flottants, et elle, penchée à la fenêtre de son wagon de troisième, faisait signe avec son mouchoir pour être mieux reconnue. Si longtemps qu'elle put, si longtemps qu'elle distingua cette forme bleu-noir qui était encore son petit-fils, elle le suivit des yeux, lui jetant de toute son âme cet "au revoir" toujours incertain que l'on dit aux marins quand ils s'en vont.

(*d*) FROS.—Oui. Premièrement, elle est nourrie et élevée dans une grande épargne de bouche; c'est une fille accoutumée a vivre de salade, de lait, de fromage et de pommes, et à laquelle par conséquent il ne faudra ni table bien servie, ni consommés exquis, ni orges mondés perpétuels, ni les autres délicatesses qu'il faudroit pour une autre femme; et cela ne va pas à si peu de chose, qu'il ne monte bien, tous les ans, à trois mille francs pour le moins. Outre cela, elle n'est curieuse que d'une propreté fort simple.

HONOURS.

French.

Literature, II.—Preliminary Honours.

Translate into English:

(*a*) Toute action libre a deux causes qui concourent à la produire : l'une morale, savoir la volonté qui détermine l'acte ; l'autre physique, savoir la puissance qui l'exécute. Quand je marche vers un objet, il faut premièrement que j'y veuille aller ; en second lieu, que mes pieds m'y portent. Qu'un paralytique veuille courir, qu'un homme agile ne le veuille pas, tous deux resteront en place. Le corps politique a les mêmes mobiles: on y distingue de même la force et la volonté, celle-ci sous le nom de *puissance législative*, l'autre sous le nom de *puissance exécutive*. Rien ne s'y fait ou ne s'y doit faire sans leur concours. —*Contrat Social*, Bk. III. c. I.

(*b*) De quel front aborder la mère de mon maître?
Quels maux sont en ces lieux accumulés sur moi!
Je reviens sans Egisthe; et Polyphonte est roi!
Cet heureux artisan de fraudes et de crimes,
Cet assassin farouche, entouré de victimes,
Qui, nous persécutant de climats en climats,
Sema partout la mort, attachée à nos pas:
Il règne; il affermit le trône qu'il profane;
Il y jouit en paix du ciel qui le condamne!
Dieux! cachez mon retour à ses yeux pénétrants;
Dieux! dérobez Egisthe au fer de ses tyrans.
—*Mérope*, 606–616.

(*c*) C'est fini. Rêve éteint! Visions disparues!
Jusqu'au soir au hasard j'ai marché dans les rues.
J'espère en ce moment. Je suis calme. La nuit,
On pense mieux. La tête est moins pleine de bruit.
Rien de trop effrayant sur ces murailles noires.
Les meubles sont rangés, les clefs sont aux armoires,
Les muets sont là-haut qui dorment. La maison
Est vraiment bien tranquille. Oh! oui, pas de raison
D'alarme. Tout va bien. Mon page est très-fidèle.
Don Guritan est sûr alors qu'il s'agit d'elle.
—*Ruy Blas*, 2017–2026.

(*d*) Les participes surtout, on ne sait par quel bout les prendre.. tantôt ils s'accordent, tantôt ils ne s'accordent pas...quels fichus

caractères! Quand je suis embarrassé, je fais un pâté... mais ce n'est pas de l'orthographe! Lorsque je parle, ça va très-bien... ça ne se voit pas... j'évite les liaisons.... A la campagne, c'est prétentieux... et dangereux... je dis: Je suis allé... (Il prononce sans lier l'*s* avec l'*a*.) Ah! dame! de mon temps on ne moisissait pas dans les écoles... j'ai appris à écrire en vingt-six leçons, et à lire... je ne sais pas comment... puis je me suis lancé dans le commerce des bois de charpente... je cube, mais je ne rédige pas.... —*La Grammaire.*

HONOURS.

French.

Prose and Composition.

1. Translate into French :

He will gain all that either of the others gain. He will either be content to read and to cease buying—he saves money—or he will continue to buy, and buy at half price—he saves money. Moreover, since he is a man who both buys and borrows books, he is a keen book-lover, and just the man to appreciate so perfect a service of book distribution as The Times Book Club affords. To such a man the question of saving money is subordinate to the question of reading all the books that he wants to read once, and of keeping the books he wants to read twice. He is glad to save money mainly because this means that more good books will be added to his shelves. At the end of his year's subscription to The Times he will be in the following position:—He will have read more books that he appreciates than he has read during the last twelvemonth, and he will have added to his library twice as many books which he knows and values, or he will have added the same number as in former years, at only half the expense.

2. Translate into French : (For Intermediate and Final Honours only.)

No grown man who is dependent on the will, that is the whim, of another can be happy, and life without enjoyment is intolerable gloom. Therefore, as money means independence and enjoyment, get money, and having got it keep it. A spendthrift is a fool.

Clear your mind of cant, and never debauch your understanding. The only liberty worth turning out into the street for, is the liberty to do what you like in your own house and to say what you like in your own inn. All work is bondage.

Never get excited about causes you do not understand, or people you have never seen. Keep Corsica out of your head.

Life is a struggle with either poverty or ennui; but it is better to be rich than to be poor. Death is a terrible thing to face. The man who says he is not afraid of it, lies. Yet as murderers have met it bravely on the scaffold, when the time comes so perhaps may I. In the meantime, I am horribly afraid. The future is

dark. I should like more evidence of the immortality of the soul. There is great solace in talk. —*A. Birrell.*

3. Write an essay in French on one of the following topics:

(*a*) The causes of national decay.

(*b*) The justification of war.

(*c*) The *a priori* method of historical study.

(*d*) The causes of the extinction of a language.

[Alternative Options for Preliminary Honours.]

(*e*) Patriotism.

(*f*) The future of Canada.

HONOURS.

French.

Literature III.—Intermediate and Final Honours.

1. Translate into English:

La vanité naturelle aux Français se fortifie et s'aiguise dans le frottement incessant de l'amour-propre de ces petits corps, et le légitime orgueil du citoyen s'y oublie. Au XVI. siècle, la plupart des corporations dont je viens de parler existent déjà; mais leurs membres, après avoir réglé entre eux les affaires de leur association particulière, se réunissent sans cesse à tous les autres habitants pour s'occuper ensemble des intérêts généraux de la cité. Au XVIII., ils sont presque entièrement repliés sur eux-mêmes, car les actes de la vie municipale sont devenus rares et ils s'exécutent tous par mandataires. Chacune de ces petites sociétés ne vit donc que pour soi, ne s'occupe que de soi, n'a d'affaires que celles qui la touchent.

2. Distinguish between the Feudal and the National elements of l'Ancien Régime.

3. Give a picture of the condition of the French peasant in Cent. XVIII.

4. What is meant by centralisation of administration? Give examples from French history.

5. Explain, with reference to the theory of De Tocquerille the terms *taille, contrôleen général, états généraux, dime.*

6. Give in outline the political theory of Rousseau.

7. Discuss briefly the sincerity of Rousseau.

8. What is the place value of Descartes in the history of philosophy?

9. Sketch briefly the mental experience of Descartes and show its permanent significance.

HONOURS.

French.

Literature, II.—Final Honours.

Translate into English:

(*a*) Ton globe, qui brillait dans ta droite profonde,
Soleil éblouissant qui faisait croire au monde
Que le jour désormais se levait à Madrid,
Maintenant, astre mort, dans l'ombre s'amoindrit,
Lune aux trois quarts rongée et qui décroît encore,
Et que d'un autre peuple effacera l'aurore!
Hélas! ton héritage est en proie aux vendeurs.
Tes rayons, ils en font des piastres! Tes splendeurs,
On les souille!—O géant! se peut-il que tu dormes?—
On vend ton sceptre au poids! un tas de nains difformes
Se taillent des pourpoints dans ton manteau de roi.
—*Ruy Blas*, 1145–1155.

(*b*) L'air de cour est contagieux: il se prend à V***, comme l'accent normand à Rouen ou à Falaise; on l'entre-voit en des fourriers, en de petits contrôleurs, en des chefs de fruiterie; l'on peut, avec une portée d'esprit fort médiocre, y faire de grands progrès. Un homme d'un génie élevé et d'un mérite solide ne fait pas assez de cas de cette espèce de talent pour faire son capital de l'étudier et se le rendre propre; il l'acquiert sans réflexion, et il ne pense point à s'en défaire. —*Les Caractères*, c. VIII.

Paraphrase in French:

(*c*) Ce ne sont pas non plus les villes écroulées,
Les ossements humains noircissant les vallées,
La Grèce incendiée, en proie aux fils d'Omar,
L'orphelin, ni la veuve, et ses plaintes amères,
Ni l'enfance égorgée aux yeux des pauvres mères,
Ni la virginité marchandée au bazar;

Non, non, ce ne sont pas ces figures funèbres,
Qui, d'un rayon sanglant luisant dans les ténèbres,
En passant dans son âme ont laissé le remord.
Qu'a-t-il donc, ce pacha, que la guerre réclame,
Et qui, triste et rêveur, pleure comme une femme?...
Son tigre de Nubie est mort.
—*Les Orientales*, VII.

HONOURS.

French.

Phonetics and the French Language.

[Extra-mural Students to have *two* hours only and will try A. only.]

A.

1. Give the rules for the formation of the plural of compound nouns.

2. Explain with short examples the use of lequel.

3. Give the principal parts of rire, sentir, exclure, renvoyer, taire.

4. Give any French proverbs you know.

5. Give the meaning and gender of: mousse, page, livre, somme, souris, tour.

6. Translate into French:

(*a*) Those are the lessons we have forgotten to learn.
(*b*) We work like so many niggers.
(*c*) Have you met the man on whose will his life depends?
(*d*) He attempts to make his life happier than is possible.
(*e*) I hardly care for so much hard work.
(*f*) Can you tell me the time?

7. Translate into English:

(*a*) Ils faisaient peine à regarder.
(*b*) Il le regarda comme on provoque
(*c*) Rien qu'aux regards de haine on devinait
(*d*) Une jolie fille n'est pas toujours aussi rangée qu' une autre.
(*e*) Ne voilà pas de mes mouchards!
(*f*) Que l'on détale de chez moi!

[Additional questions for Extra-mural Students.]

8. Give with examples the chief uses of the subjunctive.

9. Compare the English and French accent and pronunciation.

B.

[For Preliminary Honours only.]

1. What is a synthetic language? Of what importance is the distinction to French Philology?

2. How did the Celts obviate the difficulty of pronouncing initial sc. sm. sp. st?

3. What is the "Tyranny of the Tonic accent"?

4. Prove that Low Latin is not a corruption.

5. What are the chief characteristics of Modern French as a language?

C.

[For Final Honours only.]

1. Give instances of compensation in French.

2. Explain etymologically the irregular verbs.

3. Sketch briefly the development of Latin "a" and "p" in French.

4. Explain physiologically the change of Latin "v" to French "b."

5. Reproduce in Modern French:

Vait s'en Raous, si est issus del pas.
Berniers i vint, vestus d'uns riches dras,
Veïr sa mére, si descendi en bas.
Ele le baise et prent entre ses bras,
"Biax fix, dist èle, tes armes prises as;
Bien soit del conte par cui si tost les as,
Et de toi miex, qant tu deservi l'as!
Mais une chose nel me celer tu pas:
L'onnor ton pére por quoi gueroieras?
N'i a plus d'oirs, ja ne le perderas.
Par ta proèsce et par ton sens l'aras."

Anglo-Saxon.

I.

Tha ic *tha gemunde* hu sio lar Laedenge*th*iodes aer *th*issum afeallen waes giond Angelcynn, ond *th*eah monige cu*th*on Englisc gewrit araedan, *tha* ongann ic ongemang o*th*rum mislicum ond manigfealdum *bisgum th*isses kynerices *tha* boc wendan on Englisc *th*e is genemned on Laeden *Pastoralis*, ond on Englisc "Hierdeboc," hwilum word be worde, hwilum andgit of andgiete, swae swae ic hie geliornode aet Plegmunde minum aercebiscepe, ond aet Assere minum biscepe, ond aet Grimbolde minum maesseprioste, ond aet Iohanne minum maessepreoste. Si*th*an ic hie *tha* geliornod haefde, swae swae ic hie forstod, ond swae ic hie andgitfullicost *arecean* meahte, ic hie on Englisc *awende*; ond to aelcum biscepstole on minum rice wille ane onsendan; ond on aelcre bi*th* an aestel, se bi*th* on fiftegum mancessa. Ond ic bebiode on Godes naman *th*aet nan monn *th*one aestel from *th*aere *bec* ne *do*, ne *tha* boc from *th*aem mynstre; uncu*th* hu longe *th*aer swae gelaerede biscepas sien, swae swae nu, Gode *th*onc, wel hwaer siendon. For *th*y ic wolde *th*aette hie ealneg aet *th*aere stowe waeren, buton se biscep hie mid him habban wille, o*th*the hio hwaer to laene sie, o*th*the hwa o*th*re bi write.

(*a*) Translate:

(*b*) Parse the words italicized, giving the principal parts of the verbs, including the 1st pers. pres. indicative, and declining the nouns in full.

2. Unseen passages for translation:

Tha on *th*aere seofo*th*an wiecan ofer Eastron he gerad to Ecgbryhtes stane be eastan Sealwuda. Ond him to com *th*aer ongen Sumorsaete alle, ond Wilsaetan, ond Hamtunscir se dael se hiere behinon sae was, ond his gefaegene waerun. Ond he for ymb ane niht of *th*am wicum to Iglea, ond *th*aes ymb ane to E*th*andune; ond *th*aer gefeaht wi*th* alne *th*one here ond hiene gefliemde; ond him aefter rad o*th* *th*aet geweorc, ond *th*aer saet xiv niht. Ond *tha* salde se here him foregislas ond micle a*th*as *th*aet hie of his rice uuoldon; ond him eac geheton *th*aet hiera kyning fulwihte onfon wolde: ond hie *th*aet gelaeston swa.

II.

3. Translate into Anglo-Saxon:

(*a*) And immediately after that the abbess went to London and both the kings received her with much honour and requested her to tell them how it had been accomplished.

(*b*) About twelve months after this Alfred became king of the West-Saxons, and fought a great battle with the Danes and put them to flight.

(*c*) When the pirates received this answer they bound the monks and brought them to their leader.

4. *Th*e king William, uorto wite *th*e wur*th* of is londe,
Let enqueri streitliche *th*oru al Engelonde,
Hou moni plou-lond & hou moni hiden al-so,
Were in eue*r*ich ssi*r*e & wat hii were wur*rh ther*-to;
& *th*e rentes of ech tou*n* & of *th*e wate*r*es echone
*Th*et wor*th*, & of wodes ek *th*at *ther* ne bileuede none,
*Th*at he nuste wat hii were wor*th* of al Englonde,
& wite al clene *th*at wor*th ther*-of, ich vnde*r*-stonde,
& let it write clene ynou & *th*at scrit dude iwis
In *th*e tresorie at Westm*instre there* [as] it yut is:
So *th*at vre kinges su*ththe* wanne hii rau*n*son toke,
Iredy wat folc miyte yiue hii fou*n*de *there* in hor boke.

(*a*) Turn into modern English.

(*b*) Write philological notes explaining the forms, *streitliche, moni, ssire. ynou, hor.*

(*c*) Mark (1) the words derived from the French which are found in this passage from Robert of Gloucester and (2) the native English words which have since become obsolete.

5. Give the Anglo-Saxon forms of the following words and comment on any change of meaning: *to sneak, to slit, to shear, to owe, to own, to rue, to fly; churl, yard, about.*

HONOURS.

English.

FIRST PAPER.

1. The martial courage of a day is vain,
An empty noise of death the battle's roar,
If vital hope be wanting to restore,
Or fortitude be wanting to sustain,
Armies or kingdoms. We have heard a strain
Of triumph, *how the labouring Danube bore*
A weight of hostile corses; drenched with gore
Were the wide fields, the hamlets heaped with slain.
Yet see (the mighty tumult overpast)
Austria a daughter of her Throne hath sold!
And *her Tyrolean Champion* we behold
Murdered like one ashore by shipwreck cast,
Murdered without relief. Oh! *blind as bold*,
To think that such assurance can stand fast!

(*a*) Explain the fundamental idea of this sonnet and comment on it as characteristic of Wordsworth. Explain the historical allusions contained in the phrases italicized.

(*b*) Write a critical note (1) on the formal structure of this sonnet, (2) on its style. How does it compare in the latter respect with the sonnet, "Great men have been among us: hands that penned."

2. A confined triangle, perhaps fifty miles its greatest length, and thirty its greatest breadth; two elevated rocky barriers, meeting at an angle; three prominent mountains, commanding the plain,—Parnes, Pentelicus, and Hymettus; an unsatisfactory soil; some streams, not always full;—such is about the report which the agent of a London Company would have made of Attica. He would report that the climate was mild; the hills were limestone; there was plenty of good marble; more pasture land than at first survey might have been expected, sufficient certainly for sheep and goats; fisheries productive; silver mines once, but long since worked out; figs fair; oil first-rate: olives in profusion. But what he would not think of noting down, was, that the olive tree was so choice in

nature and so noble in shape, that it excited a religious veneration; and that it took so kindly to the light soil, as to expand into woods upon the open plain, and to climb up and fringe the hills. He would not think of writing word to his employers, how that clear air, of which I have spoken, brought out, yet blended and subdued, the colours on the marble, till they had a softness and a harmony for all their richness, which in a picture looks exaggerated, yet is after all within the truth. He would not tell, how that same delicate and brilliant atmosphere freshened up the pale olive, till the olive forgot its monotony, and its cheek glowed like the arbutus or beech of the Umbrian hills. He would say nothing of the thyme and thousand fragrant herbs which carpeted Hymettus; he would hear nothing of the hum of its bees; nor take much account of the rare flavour of its honey, since Gozo and Minorca were sufficient for the English demand. * * * Nor the distinct detail, the refined colouring, nor the graceful outline and roseate golden hue of the jutting crags, nor the bold shadows cast from Ctus or Laurium by the declining sun;—our agent of a mercantile firm would not value these matters even at a low figure. Rather we must turn for the sympathy we seek to yon pilgrim student come from a semi-barbarous land to that small corner of the earth, as to a shrine, where he might take his fill of gazing on those emblems and coruscations of invisible unoriginate perfection. It was the stranger from a remote province, fromBritain or from Mauritania, who in a scene so different from that of his chilly, woody swamps, or of his fiery choking sands, learned at once what a real University must be, by coming to understand the sort of country, which was its suitable home. —*Newman.*

(*a*) Characterize the vein of thought here.

(*b*) Judge the style and power of expression. Compare it as regards precision, force and range with that of Ruskin.

3. He was prouder than the devil:
How he must have cursed our revel;
Ay and many other meetings,
Indoor visits, outdoor greetings,
As up and down he paced this London,
With no work done but great works undone,
Where scarce twenty knew his name.
Why not, then, have earlier spoken,
Written, bustled? Who's to blame
If your silence kept unbroken?
"True, but there were sundry jottings,
Stray-leaves, fragments, blurs and blottings,
Certain first steps were achieved

Already which"—(is that your meaning?)
Had well borne out whoe'er believed
In more to come!" But who goes gleaming
Hedgeside chance-blades, while full-sheaved
Stand cornfields by him? Pride, o'erweening
Pride alone, puts forth such claims
O'er the day's distinguished names.

(*a*) Explain briefly the thought here and the characteristic element of trony which it contains.

(*b*) Comment on the qualities of the style and versification as characteristic of the author.

4. Compare *briefly* these three extracts as illustrating the fundamental qualities of the writer's thought, its grasp of reality, ethical force or quality and sense of life.

HONOURS.

English.

SECOND PAPER.

I.

1. (*a*) Interpret the *Epistle of Karshish* as Browning's manner of representing the change in the consciousness of men wrought by Christianity. Quote where desirable. (*b*) Judge Browning's *Cleon* as a fair representation of the results of Greek culture and civilisation. Does not Cleon's estimate of life as capacity to enjoy leave out the pleasures of intellect and is not this fatal to his argument?

2. (*a*) What are the merits of Cowper's criticism of life and what are its defects? Illustrate your answer by quotations or by specific references to his works. (*b*) Estimate Cowper as a *lyric* poet and compare him with Wordsworth *in this respect.*

II.

3. State from what poems or works the following extracts are taken; explain their meaning and application:

(*a*) And from him came
As from the Pythian's mystic cave of yore,
Those oracles which set the world in flame,
Nor ceased to burn till kingdom's were no more:
Did he not this for France?

(*b*) Surly and slovenly, and bold and coarse,
Too proud for art, and trusting to mere force.

(*c*) The sanctuary's gloom at least shall ward
Vain tongues from where my pictures stand apart.

(*d*) He sits enjoying his sea-furniture;
'Tis stout and proper, and there's store of it:
Though I've the better notion all agree,
Of fitting rooms up.

(*e*) To the wisest man, wide as is his vision, Nature remains of quite infinite depth, of quite infinite expansion.

(*f*) It is but the common lot in this era. Not having come to spiritual majority prior to the Siècle de Louis Quinze, and not being born purely a Loghead thou hadst no other outlook.

(*g*) He would have run the whole race back, forsooth
And left being Pandulph, to begin write plays?

(*h*) But time and earth case-harden us to live;
The feeblest sense is trusted most.

(*i*) In him the savage virtue of the Race,
Revenge and all ferocious thoughts were dead:
Nor did he change; but kept in lofty place
The wisdom which adversity had bred.

(*j*) ....fancy too,
Delusive most where warmest wishes are,
Would oft anticipate his glad return,
And dream of transports she was not to know.

(*k*) And worst of all a treasonable growth
Of indecisive jndgments that impaired
And shook the mind's simplicity.

(*l*) Of spirit too capacious to require
That destiny her course should change; too just
To his own native greatness to desire
That wretched boon, days lengthed by mistrust.

4. As at return of tide the total weight of ocean,
Drawn by moon and sun from Labrador and Greenland,
Sets-in amain, in the open space betwixt Mull and Scarba,
Heaving, swelling, spreading the might of the mighty Atlantic.
—*Clough.*

Xanthus and Balius both, ye far-famed seed of Podarga!
See that ye bring your master home to the host of the Argives
In some other sort than your last, when the battle is ended;
And not leave him behind, a corpse on the plain, like Patroclus.
—*Arnold.*

(*a*) Scan these hexameters. Compare Clough's management of this kind of verse with Longfellow's.

(*b*) What are the technical questions to be considered in naturalizing the classic hexameter? What are the real difficulties in using it?

(*c*) Compare Wordsworth's management of blank verse with Tennyson's.

HONOURS.

English.

THIRD PAPER.

I.

1. (*a*) State distinctly, supporting your opinion by quotation and reference, what you think the bases of Emerson's optimism are.

(*b*) Criticize or justify each of these bases and compare each with Carlyle's attitude on the same question.

2. Sum up Clough's attitude and point of view (1) as expressed in *The Bothie*, (2) as expressed in *Amours de Voyage*. Notice the elements of irony, satire and faith.

3. (*a*) Give the principal features in Carlyle's character sketches of Captain Edward Sterling and Frank Edgeworth. Comment on the insight and art they show and the predilections they reveal.

(*b*) Comment on the "poetic justice" shown in Scott's conception of the career and destiny of Balfour of Burleigh, Nanty Ewart, Claverhouse. Can it be regarded in each case as in accordance with the laws of life?

4. (*a*) Give an account of Carlyle's method of narrating the battle of Dunbar. What psychological elements in the events does Carlyle's method particularly enable the reader to understand and realize?

(*b*) Explain and illustrate from the *Battle of Dunbar* or the *Dismissal of the Rump* the following classification of elements in the historical narration of events: (1) formal or technical, (2) material and concrete, (3) logical (chain

of cause and effect), (4) psychological and spiritual. To what elements does Carlyle's method give the highest relief? What elements does he disregard or touch but lightly?

II.

5. Give a brief account of the origin of the Sonnet form. Characterize its use by Dante and Milton respectively. What two arguments, historic and aesthetic respectively, may be given in favour of a two-rhyme octave? Consider the question of (1) a couplet close in the sestet and (2) the use of couplet rhyme anywhere in the sestet. Illustrate from Wordsworth's usage.

6. Compare Chaucer's handling of octosyllabic verse with Byron's. Comment on Chaucer's treatment of classical legend in the case of Dido.

HONOURS.

History.

FIRST PAPER.

1. "The Anglo-Saxon system of vassalage grew out of the law, not of the land." Explain this.

2. In Manorial Courts distinguish between Court Customary, Court Baron, and Court Lect. Explain the terms Liberties and Honours.

3. Criticize Stubbs' statement, "The Curia Regis may be regarded as a perpetual committee of the National Council." State the character and functions of the Curia.

4. Explain Burgage Tenure. What does Stubbs mean when he says, "Burgage Tenure answers to the socage of rural Manors"?

5. "Si quis extra portum barganniet, oferhyrnesse regis culpa est." Explain this extract from the Statutes of Edward I.

6. "Et habeat rex forisfacturas omnium eorum qui liberas terras habeat, nec componat aliquis pro ulla tyhlla si non intersit testimonium praepositi regis." What does this imply?

HONOURS.

History.

SECOND PAPER.

1. State briefly the terms of the provisions of Oxford. How were they to be given effect to?

2. After the Parliament of 1295, what was the form of the writs of summons to Parliament, of the Clergy, of the Peers, of the Knights of the Shires, and of the representatives of the Boroughs? What were the terms of the Praemunientes clause? State any distinction between the summons to arms and the summons to Parliament.

3. What questions arose out of the election of Proctors to Parliament?

4. Trace the growth of the power of Parliament under the first three Edwards in regard to taxation, to legislation, and deliberation. What is the judicial power of Parliament?

5. Describe the change from procedure by petition to bills.

6. Compare the growth of the constitution under the Lancastrians and under the Yorkists.

7. State the principles of representative government according to Mill and Guizot.

HONOURS.

History.

THIRD PAPER.

1. It is a very early principle of the English constitution that the Sovereign can levy no sort of new tax upon the people except by a grant from Parliament. How did the Tudors avoid this principle?

2. What were the political results of the confiscation of the monasteries by Henry VIII.

3. Hallam says that an equal inviolability cannot be attached to private and corporate property. Carefully state the distinction.

4. Under Henry V. an act was passed which required every city and borough to elect none but members of their own community. In 1571, under Elizabeth, a bill was introduced into Parliament to render valid elections of non-residents. State the arguments for and against such elections?

5. State the privileges of the members of the House of Commons.

6. State the terms in which under James I. the Commons vindicated the constitutional rights and privileges of Parliament.

7. The immunity of English subjects from arbitrary detention is a fundamental principle of the English constitution expressed in Magna Charta, and in an Act of Edward I. (25). What circumstances called forth a more explicit statement in the Habeas Corpus Act, 1678?

8. What is the origin of the Irish Pale? What counties did it include? State the terms of Poyning's Law.

HONOURS.

History.

FOURTH PAPER.

1. State the relations and responsibilities of the Cabinet to Parliament, and to the Sovereign, illustrating by the statement of Sir Robert Peel in 1834, and by the treatment of Lord Palmerston in 1851.

2. In what respect can the House of Peers be regarded as representative?

3. What was the conduct of the Peers in regard to the Reform Bill of 1832?

4. Under the Tudors and early Stuarts, what were the sources of the revenues of the Crown? What change was made after 1688? What expenses were comprised in the Civil list? Compare the sources of the revenue of the English Crown and of the King of France.

5. What questions arose out of Wilkes' publication of the North Briton No. 45? How were they decided?

6. What are the functions of the Supreme Court of the United States?

7. State the terms of the Union Act of Canada, 1840.

HONOURS.

Philosophy.

FIRST PAPER.

1. How would you explain the passage in the Phaedo describing the contrast between the Socratic method and that of Anaxagoras? Defend your view.

2. Characterise after Plato *εἰκασία*, *δόξα*, *διανοία*, and *νόησις* or *ἐπιστήμη*.

3. What light does the discussion of the Heraclitic and Eleatic doctrines, in the Thaetetus, Sophist and Parmenides, throw upon Plato's theory of "ideas"?

4. In what different ways does the "matter" of Aristotle show its independent activity?

5. How far is Aristotle true to the principle that "matter" and "form" are correlative?

6. State the difficulties in Aristotle's conception of the relation of God to the world. Have you any solution to offer?

HONOURS.

Philosophy.

SECOND PAPER.

1. How is the critical philosophy related to the philosophy of Wolff?

2. "Sensation is the actual affection of our sensibility by an object. The perception which refers itself to an object through sensation, is *empirical perception.* The undetermined object of such a perception is a *phenomenon* (Erscheinung.)" Give a careful explanation of this passage as you understand it.

3. "Change, including motion, is conceivable only in and through the idea of time." What is the relation of this statement to the transcendental exposition of time?

4. "A judgment is simply the way in which given ideas are brought to the *objective* unity of apperception." What objections does Kant make to the ordinary definition of judgment as "the consciousness of a relation between two conceptions"? Show the connection of his own view of judgment with the deduction of the categories.

5. "The dialectical illusion in rational psychology arises from the confusion of an idea of reason with the perfectly undetermined conception of a thinking being in general." Explain this saying.

6. State shortly the third antinomy, and give the critical solution of it.

HONOURS.

Philosophy.

THIRD PAPER.

1. What objections does Hegel make to the conception of knowledge as an instrument?

2. "Kant makes feeling and perception the stages prior to the understanding." What imperfections does Hegel find in this mode of presentation?

3. "The transition from the *Begriff* to objectivity is in essence identical with the ontological proof of the existence of God." In what sense is this maintained by Hegel?

4. "Objects as self-enclosed totalities are identical with the monads ot Leibnitz." What are the defects in this mode of conception?

5. Describe the transition from Mechanism to Chemism, and distinguish the chemical from the mechanical object.

6. Give Hegel's criticism of Kant's solution of the antimony of mechanism and teleology.

HONOURS.

Philosophy.

FOURTH PAPER.

1. Give Hegel's doctrine of punishment with criticisms.

2. Distinguish (*a*) "person" and "subject," (*b*) "purpose" and "intention."

3. What is Hegel's view of conscience? How is it connected with evil? Consider the view.

4. What according to Hegel is the Ethical Order? Is the absolute will the will which realizes this order? Explain your view.

5. Discuss Hegel's idea of religion in its relation to the state.

HONOURS.

Philosophy.

FIFTH PAPER.

1. What are the theories of Parmenides and Heraclitus? Explain Plato's relation to them.

2. What is Plato's criticism of (*a*) the "friends of ideas," and (*b*) the Separatists who refuse to admit predication?

3. What does Plato mean by *καθαρσις*? In what connection is the idea used?

4. Give the Sophists' theory of the state with the criticisms of Plato and Aristotle.

5. Translate (*a*) Sophist 245 D. (*Μὴ ὄντος* and Stranger's next speech), (*b*) Sophist 249 D. (*Τῷ δὴ φιλοσόφῳ*, to close of speech), (*c*) Sophist 265 C. (*Ζῶα δὴ—τὸ δὲ θεῖον*). Give explanations and comments.

HONOURS.

Philosophy.

SIXTH PAPER.

1. Discuss Bradley's view that in the Absolute there must be a balance of pleasure.

2. (1) "Thought is identical with reality." (2) "Thought comprehends reality." Which of these principles seems to you true? Criticise Bradley's conception of thought.

3. Examine into the truth of the doctrine that the Absolute is beyond moral distinctions.

4. Can there be a number of time-series? In what sense, if any, do you regard time as self-contradictory? Is it predicable of the Absolute?

5. Are Pluralism and Monism mutually exclusive? Apply your conclusion in solution of the problem of the "this" and the "mine."

6. "Truth consists in its practical consequences." Examine this saying of the Pragmatists.

HONOURS.

Philosophy.

SEVENTH PAPER.

Æsthetics.

1. State and interpret Aristotle's definition of tragedy with special reference to the following points: (*a*) Structure of the plot; (*b*) relation of character to plot; (*c*) aim and function of tragedy.

2. "Poetry is a more philosophical and a higher thing than history, for poetry tends to express the universal, history the particular." Explain and estimate fully the comparison drawn here between poetry and history.

3. What is Aristotle's conception of the ideal tragic hero? Do you consider it satisfactory? Give your own view.

4. Analyze carefully the consciousness of beauty.

5. Give a definition of a work of art, including a theory of the ugly. Defend your view against possible objections.

FINAL HONOURS.

Political Science.

FIRST PAPER.

1. Discuss the various aspects of the statement that industry is limited by capital.

2. What are the leading factors which determine the value of labour? Is time an element essential to labour?

3. In what modern forms do we find expressions of Adam Smith's principle, that division of labour is limited by the extent of the market?

4. Compare the views of Smith and Mill as to the value of colonies to the mother country.

5. Examine, in the light of modern conditions, Mill's analysis of the tendency of profits to a minimum, as also the counteracting influences to this tendency.

6. What were the chief contributions made to the science of Economics between the periods of Smith and Mill?

FINAL HONOURS.

Political Science.

SECOND PAPER.

1. Analyze carefully the nature of bank credit. What are the theoretical and practical limitations to its expansion?

2. Account for the coexistence of different money markets with distinct rates in each.

3. Contrast the legitimate and objectionable forms of double taxation. Account for the fact that the problems of double taxation are peculiarly modern.

4. Can corporate and private property be satisfactorily taxed on the same basis?

5. Discuss the special features of railway bonds as compared with other forms of loan securities.

6. What are the basal problems involved in the establishing of railway rates?

FINAL HONOURS.

Political Science.

THIRD PAPER.

1. Compare and relate the principles of anarchy and socialism. How far can consistent anarchists organize a social or political movement?

2. Explain the nature and principles of state socialism. How far have recent advances towards municipal and state ownership and state control, realized the idea of socialism?

3. What social and economic forces were manifested in the rise and decline of the civic and labour guilds?

4. Discuss, in the light of their historic development and present position, the efforts of trades unions to exclude non-union labour from employment in various trades.

5. What were the essential features of the Industrial Revolution? How far did it extend to other countries than Britain?

6. Discuss the validity of the standpoint from which Arnold criticises both the aristocratic and democratic forces in British public life.

FINAL HONOURS.

Political Science.

FOURTH PAPER.

1. Trace the relationship between territorial sovereignty and international law.

2. Account for the development of primogeniture in western Europe.

3. "The penal law of ancient communities is not the law of crimes; it is the law of wrongs." Explain.

4. Compare religion, ajudication, and equity as sources of law.

5. Develop the relationship between private and constitutional law, (*a*) as to the basis upon which they rest, (*b*) as to the different spheres to which they apply.

6. How far has collectivism modified the principles introduced into British public life by the individualism of Bentham and his followers?

FINAL HONOURS.

Political Science.

FIFTH PAPER.

1. What elements of truth are contained in Bluntschli's conception of the tendency of humanity towards a universal empire? How can this tendency be more fully realized?

2. Compare the federal and confederate forms of the state, and consider their application to democratic and monarchical systems of government.

3. Through what channels is sovereignty exercised in practice in Canada?

4. In what respects has the development of the United States rendered necessary the encroachment of the national jurisdiction upon that of the individual states? How far does his apply to Canada?

5. How far is the democratic extension of the franchise in Germany neutralized by the practical operation of the Imperial system?

6. What are the essential features of the political bond between Austria and Hungary? What are its chief defects, from a practical point of view?

HONOURS.

Modern Synthetic Geometry.

1. Show that an infinite system of concentric circles with centre O inverts, with respect to any centre C, into a complete system of l.p.-circles; and distinguish between the inverses of the circles of the given system with radii less than, equal to, and greater than OC.

2. (*a*) Lines are drawn from the vertices of a triangle to meet the opposite sides in P,Q,R. Show that the polar centre of the triangle is the radical centre of the circles with these lines as diameters. (*b*) If P,Q,R in (*a*) are collinear, the circles are co-axal.

3. Prove that two triangles which have their corresponding sides intersecting collinearly have their corresponding vertices connecting concurrently.

4. O is the external centre of similitude of two circles S and S′. Prove by inversion with respect to the circle of antisimilitude that any line through O cuts the circle of similitude and the radical axis of S and S′ at the same angle.

5. Write down the six anharmonic ratios of a range of four; and show that they may all be expressed in terms of one of them.

6. (*a*) A,B,C and D,E,F are two sets of points on the lines AC and DF respectively. Prove that the intersections of AE and DB, EC and BF, and CD and FA are collinear. (*b*) Draw a figure to represent the polar reciprocal of the figure of (*a*), and deduce the corresponding theorem.

7. Prove Brianchon's theorem; and show that with the same 6 tangents to the circle there are 60 Brianchon points, collinear in groups of four, and in other groups of three.

8. Show that there are two double points, both real or both imaginary, in every doubly homographic system; and show how they may be found by rectilineal projection from a circle.

HONOURS.

Algebra I.

1. Find, correct to two decimal places, the real root of $x^3-3x^2+2x-2=0$.

2. Find S_n of the series for which $u_n=5(3^n)-7n^2+n^3$.

3. With 12 letters $a, b, c,$ &c., how many combinations of 5 letters may be formed, and in how many of these will two given letters be both present?

4. (*a*) Prove $c_0{}^2+c_1{}^2+c_2{}^2+\ldots..c_n{}^2=(2n)!/(n!)^2$.

(*b*) Prove, $h_0+\frac{1}{2}h_1+\frac{1}{4}h_2+\frac{1}{8}h_3+\ldots..=2^n$.

5. (*a*) Separate $(4+3x+2x^2)/(1-x)(1+x-2x^2)$ into its partial fractions, and find the coefficient of x^{10} in its expansion.

(*b*) Employ undetermined coefficients to expand $(1+x)^{\frac{1}{3}}$.

6. (*a*) Prove by induction that the nth convergent is of form $(a_np_{n-1}+p_{n-2})/(a_nq_{n-1}+q_{n-2})$.

(*b*) Find, through one period, the convergents of $\sqrt{11}$.

7. (*a*) Prove the theorem, $\log z=\log(z-1)+2\left\{\frac{1}{2z-1}+\frac{1}{3(2z-1)^3}+\frac{1}{5(2z-1)^5}+\ldots..\right\}$

(*b*) Develop, $u_n=u_0+{}^nC_1\Delta_1+{}^nC_2\Delta_2+\ldots..$

8. (*a*) Calculate to 4 places, $\log_e 2$, $\log_e 5$, $\log_{10}2$.

(*b*) Find u_n of the series 8, 5, 4, 10, 28, 68, ...

HONOURS.

Algebra II.

1. (*a*) Examine the convergence of the series $\Sigma 1/(1+\frac{1}{n})^{n^2}$. (*b*) Find a test of convergence for the product $u_1 u_2 \ldots u_n \ldots$, where $L_{n=\infty} u_n = 1$; and apply it to $\frac{2}{1}\cdot\frac{5}{4}\cdot\frac{10}{9}\cdot\frac{17}{16}\cdot\ldots\ldots$

2. Find the limit of the series $\sum_0^\infty \varphi(n)x^n/n!$, where φ is a given positive integral function; and illustrate by finding the limit of

$$1^3 x/1! + (1^3+2^3)x^2/2! + (1^3+2^3+3^3)x^3/3! + \ldots\ldots$$

3. Find the proper fraction which is the nearest possible in value to 860/2899 and greater than it, with a denominator less than 600. Prove that your method is correct in the general case.

4. Find the $(n+1)$th convergent to the continued fraction $\frac{1}{1}-\frac{4}{5}-\frac{9}{13}-\frac{64}{25}-\ldots\ldots\frac{(n^2-1)^2}{n^2+(n+1)^2-}\ldots\ldots$

5. (*a*) Show that if $(x+1)(x+2)\ldots\ldots(x+p-1) = x^{p-1} + A_1 x^{p-2} + \ldots + A_{p-2}x + A_{p-1}$, then $A_1, A_2, \ldots A_{p-2}$ are all divisible by p when p is prime. (*b*) From (*a*) deduce the theorems of Fermat and Wilson.

6. (*a*) If p is the probability that an event happens in any one trial, find the probability that it will happen at least r times in n trials. (*b*) What is the most probable number of times that the face marked 6 in an ordinary die may turn up in 22 throws?

HONOURS.

Trigonometry I.

1. Draw the graph of the cosine, and from it deduce an expression for all angles having the same cosine.

2. (*a*) Expand $\tan(\theta+\varphi)$ in terms of $\tan\theta$ and $\tan\varphi$; and thence deduce the expansion of $\cot(\theta+\varphi)$.

(*b*) In a triangle $\tan A+\tan B+\tan C=\tan A\tan B\tan C$.

3. (*a*) Develope the cosine formula. (*b*) Obtain a log-formula for finding an angle of a triangle when the 3 sides are given.

4. (*a*) Show that if r be the in-radius of a triangle $r=\triangle/s,=(s-a)\tan\frac{1}{2}A$; $r_1=\triangle/(s-a),=(s-b)\cot\frac{1}{2}C$.

(*b*) Prove $r_1r_2+r_2r_3+r_3r_1=\Delta^2/r^2$.

(*c*) Prove $rr_1=r_2r_3\tan^2\frac{1}{2}A$, and give two symmetric expressions.

5. Show that $\tan^{-1}p-\tan^{-1}r=\tan^{-1}\dfrac{p-q}{1+pq}+\tan^{-1}\dfrac{q-r}{1+qr}$.

6. (*a*) Show that for each value of $\sin\theta$ there are four values for $\frac{1}{2}\theta$.

(*b*) Solve $\sin7\theta-\sin\theta=\sin3\theta$.

7. Knowing that $\log_x a=m$, show to find $\log_y a$.

HONOURS.

Conics I.

1. (*a*) Find an expression for the area of a triangle in terms of the coordinates of its vertices. (*b*) Apply to the triangle whose vertices are (3, 4), (−4, 1), (2, −3).

2. Prove that every linear equation in x and y denotes a line.

3. Develope the discriminant of the general equation, and by it examine the equation $x^2+y^2-2y+1=0$.

4. Find the bisectors of the angle between the lines $6x^2+4xy-3y^2=0$, and show that these bisectors are perpendicular to one another.

5. Write the equation of a circle passing through three given points, and interpret it as a relation amongst four points on a circle.

6. Find the coordinates of the common point of two tangents to the parabola $y^2=4ax$. Thence show that every line parallel to the axis is a diameter.

7. Find a general equation for all conics in terms of (*a*) cartesian coordinates. (*b*) Polar coordinates with focus as pole.

8. If β, β' be the angles which conjugate axes make with the principal axis show that $\tan\beta\cdot\tan\beta'=\pm(b^2/a^2)$, and distinguish the cases as respects rotation of axes.

9. Find the equation of the tangent at the point φ where φ is the eccentric angle of the ellipse.

10. Find the locus of the point of intersection of two tangents drawn at the end points of conjugate diameters.

HONOURS.

Synthetic Solid Geometry.

1. (*a*) Given the face-angle of a three-faced corner find by a plane construction a dihedral angle.

(*b*) Apply to the spheric triangle, by showing that $\cos A = \frac{\cos a - \cos b \cos c}{\sin b \sin c}$

2. (*a*) The joins of the centroids of the opposite faces of a parallelepiped bisect one another, while the joins of the centroids of adjacent faces are parallel and equal in pairs. (*b*) Find the radii of the three spheres of the regular octahedron. (*c*) Find the volume of a regular octahedron whose edge is 3 inches.

3. (*a*) Find the volume generated by a plane figure having a circle as director. (*b*) Find the volume of the generated figure for which a square is the generator, the opposite vertices being guided by a circle whose radius is $4\frac{1}{2}$ inches.

4. (*a*) The area of the curved surface of a cylindroid is equal to the area of the curved surface of a cylinder with the same normal section whose altitude is equal to the distance between the centres of figure of the bases of the cylindroid. (*b*) Find the distance of the centre of figure of an arc, whose chord is 6 inches, from the centre of a circle whose radius is 6 inches, and find the area of the surface of the circular spindle generated.

5. (*a*) Show how a conic is obtained as a plane section of a circular cone, and in this connection explain what is meant by (i) the focus, (ii) the directrix, (iii) the eccentricity. (*b*) Deduce the definition of the conic as a plane curve.

HONOURS.

Analytic Solid Geometry.

1. Find the analytic condition that two lines in space may intersect.

2. Derive the functional equation of the general quadric cone.

3. Derive the equation of the hyperbolic paraboloid, and thence find its two systems of generating lines.

4. Determine the effects of the rectangular terms in the general quadric equation, and show how to get rid of them.

5. Determine the equation known as the discriminating cubic and explain its use by transforming $6x^2+6y^2+4z^2-4yz-4zx-20=0$.

6. Write the invariants of the general quadric equation, and explain what they mean in reference to the ellipsoid.

7. Find the planes which make circular sections with the hyperboloid of two sheets.

8. Explain "the polars" to a given surface, and show that the 1st polar is one degree lower than the surface.

9. Given the curves $y=fx$ and $z=\varphi x$, to find the equation of the osculating plane to their curve of intersection. Apply your result to the common helix.

HONOURS.

Calculus I.

1. Find the value of $\frac{dy}{dx}$ from, (*a*) $y\sqrt{1+x^2}=\sqrt{1-x^2}$, (*b*) $y=x\log(x+\sqrt{x^2-a^2})$, (*c*) $xy(x^2+y^2)=\sin^{-1}(2xy)$.

2. (*a*) Explain what is meant by a maximum, a minimum, and a point of inflexion in relation to curves; and explain how far the values of $\frac{dy}{dx}$ and $\frac{d^2y}{dx^2}$ are determined at these points. (*b*) Find the greatest cylinder that can be inscribed in a right circular cone of given base and height.

3. Integrate, (*a*) $\int_0^2 \frac{dx}{x^2-2x+2}$, (*b*) $\int_{-a}^{+a} x^2\sqrt{a^2-x^2}\,dx$, (*c*) $\int x^2e^x dx$.

4. Show that the area of one loop of the cycloid $x=a(\theta-\sin\theta)$, $y=a(1-\cos\theta)$, is 3 times the area of the generating circle, and that the length of the curve is 4 times the diameter of the circle.

5. (*a*) Find the general equation for the normal to a curve. (*b*) Find the equation of the normal through (α, β) to the ellipse $\frac{x^2}{a^2}+\frac{y^2}{b^2}=1$, and show that there are 4 such normals of which two are always real.

6. (*a*) Prove the formula $p=r^2/\sqrt{r^2+f'^2}$ for polar curves; and find p for the curve $r=a(1+\cos\theta)$ at the

points $\theta=0$, $\theta=\pi/2$, $\theta=\pi$. (*b*) By differentiating the formula of (*a*), prove that $\rho=r\frac{dr}{dp}$, when ρ is the radius of curvature.

7. Find the nth derivative of $x^3\log(1-x)$.

8. Prove Taylor's theorem, and deduce that of Maclaurin.

9. By means of a differential equation, show that the law of coefficients in the expansion of $e^{a\sin^{-1}x}$ is $a_{n+2}=\frac{n^2+a^2}{(n+1)(n+2)}a_n$, and write out the expansion as far as x^5.

HONOURS.

Spherical Trigonometry and Astronomy.

1. For the spherical triangle, establish the formulas:

(a) $\cos a = \cos b \cos c + \sin b \sin c \cos A$.

(b) $\sin\frac{1}{2}(A+B)\cos\frac{1}{2}c = \cos\frac{1}{2}(a-b)\cos\frac{1}{2}C$.

(c) $\sin\frac{1}{2}a = \sqrt{\left\{\frac{-\cos S\cos(S-A)}{\sin B\sin C}\right\}}$

2. Find an expression for the change in longitude from following the loxodrome from lat. φ to lat. φ' at an angle θ with the meridian.

3. Show fully how to find the meridian by observing a north star at greatest elongation.

4. Explain and prove a process by which to draw the hour lines on a horizontal dial.

5. Find the maximum part of the equation of time depending upon the obliquity of the ecliptic $w = 23°27'$, $\cos w = 0{\cdot}9174$, $\cot^{-1} 1{\cdot}0405 = 43°52'$.

6. Explain the phenomena known as the precession of the equinoxes, and the nutation, and describe the prominent astronomical results.

HONOURS.

Differential Calculus II.

1. (*a*) Establish Leibnitz's theorem for finding $D^n(uv)$ where u and v are functions of x.

(*b*) If $e=c^{m\cosh^{-1}x}$, find $D^n u$, without the hyperbolic function.

2. In $x^n D^n$ change the variable from x to t, where $x=e^t$.

3. (*a*) Show how to find the polar reciprocal of $f(xy)=0$.

(*b*) Apply to $ax^n+by^n-1=0$.

4. Show that n asymptotes of a curve cut the curve in $n(n-2)$ points, which lie on a curve two dimensions lower.

5. If a curve be given by its *p.r.* equation, prove that its radius of curvature is rdr/dp.

6. Find the equation of a conic which has 3rd-order contact with a given curve.

7. Parallel chords in a circle are made diameters of other circles. Find the envelope of the system, and the radius of the smallest circle that touches the envelope.

8. Develope La Grange's criterion for a maximum or a minumum with two independent variables.

HONOURS.

Integral Calculus II.

1. If $\frac{1}{2}(e^y - e^{-y})$ defines $\sinh y$, prove that

$$\int \frac{dx}{\sqrt{x^2+a^2}} = \sinh^{-1}\frac{x}{a}.$$

2. Show that the area of the pedal of an ellipse with respect to any point, P, in its plane is greater than that with regard to the centre, C, by one-half the circle on CP as radius.

3. (a) Establish Holditch's theorem. (b) If a chord of constant length slides in an ellipse, the area between the locus of its mid-point and the ellipse is that of the circle on the chord as diameter.

4. Obtain the double integral for expressing the surface of a solid to rectangular coordinates.

5. Find a reduction formula for $\int \frac{x^m dx}{(a+bx+cx^2)^n}$.

6. (a) Find a reduction formula for $\int \sin^m\theta \cos^n\theta$, so so as to reduce n and leave m unchanged.

(b) Show that $\int_0^{\frac{1}{2}} \sin^{10}\theta\cos^8\theta\,\mathrm{do} = 35\pi/2^{18}$.

7. Show that $\int_0^1 x^m(\log x)^n dx = (-)^n \frac{n!}{(1+m)^{1+n}}$.

HONOURS.

Differential Equations.

1. By means of a geometrical interpretation of the following differential equations in which L, M, N are functions of x and y, show that the primitive (i) of $N\frac{dy}{dx}+M=0$ is linear in an arbitrary constant c, (ii) of $N\left(\frac{dy}{dx}\right)^2+M\frac{dy}{dx}+L=0$ is quadratic in c, (iii) of $N\frac{d^2y}{dx^2}+M\frac{dy}{dx}+L=0$ has two arbitrary constants.

2. Find the primitive of

(i) $y(\sqrt{x^2+y^2}+x)dx-x^2dy=0$.

(ii) $(1+xy)^2ydx+(1-xy)^2xdy=0$.

3. Obtain the equation of the curve in which the part of the tangent intercepted between the axes is constant and equal to a.

4. Explain what the different loci found from the discriminants of a system of curves become in the orthogonal trajectories of the system; and illustrate with the loci in the system $(y-2a)\,p^2=3a$ and its trajectories.

5. Solve the equation $y=x\varphi(p)+f(p)$. Point out a special case when the general solution fails, and obtain a solution for it.

6. Explain a test to determine whether $f(x, y, p, q)=0$ is an exact differential equation. Apply it to the equation $(1-x^2)q-xp+y=0$, and find the primitive.

7. Find the primitive of

(i) $(D^2-1)y+\sin(3x+a)=0$.

(ii) $(x^3D^3+2x^2D^2-xD+1)y=0$.

(iii) $\{xD^2-(1+x)D+1\}y=0$.

HONOURS.

Finite Differences.

1. (*a*) Develope a series for the *n*th difference of the product of two functions in ascending differences of one of them. (*b*) Find the *n*th difference of $\cos(ax+b)$, and of $x^3\cos x$.

2. Prove the formula $\varphi(E)0^n = E\varphi'(E)0^{n-1}$; and deduce a formula for finding the numbers $\Delta^m 0^n$ successively.

3. Given that log-sin34°=74756, log-sin35°=75859, and log-sin36°=76922, find the angle whose log-sin is 75200.

4. Find $\Sigma\varphi(x)$ as a series of differences of $\varphi(0)$; and use the result to sum the series $1^3+2^3+3^3+\ldots\ldots+n_3$.

5. By means of finite integration, sum to 100 terms the series $\frac{1}{1\cdot3\cdot5}+\frac{1}{3\cdot5\cdot7}+\frac{1}{5\cdot7\cdot9}+\ldots\ldots$

6. Prove the theorems: (*a*) $f(E)a^x\varphi(x)=a^x f(aE)\varphi(x)$;

(*b*) $\Sigma a^x\varphi(x)=\frac{a}{a-1}\left\{\varphi(x)-\frac{a}{a-1}\Delta\varphi(x)+\frac{a^2}{(a-1)^2}\Delta^2\varphi(x)\right.$

$\left.-+\ldots\ldots\right\}$.

7. (*a*) Show how to transform the infinite series $\varphi(0)-\varphi(1)+\varphi(2)-\varphi(3)+-\ldots$ into one more rapidly converging. (*b*) Employ the method of (*a*) to show that $1-\frac{1}{3}+\frac{1}{5}-\frac{1}{7}+-\ldots$to inf. $=0{\cdot}7854$ nearly.

HONOURS.

Trigonometry II.

1. Given $2fx=f2x1(1-x^2)$, to find the form of fx, and of $f^{-1}x$, each to 4 terms.

2. Express $\cos^n\theta$ in terms of powers of $\cos\theta$.

3. (*a*) Prove the relation $e^{i\theta}=\cos\theta+i\sin\theta$, and show that $e^{i\theta}$ is periodical.

(*b*) Show that every positive number has an indefinite number of logarithms, of which one is real.

4. Find r and φ, when $(\alpha+i\beta)^{\alpha+i\beta}=r(\cos\varphi+i\sin\varphi)$.

5. Find the partial fractions of $1/\{x^n+1\}$.

6. Expand $\sin\theta/(1+2x\sin\theta+x^2)$ in functions of multiple of θ.

7. Find the generating functions of the series given by $\sum_0^\infty \cos^n\theta \frac{\cos(n+1)\theta}{n!}$, and $\sum_0^\infty \cos^n\theta \frac{\sin(n+1)\theta}{n!}$.

HONOURS.

Quaternions.

1. Prove by Vector methods that the medians of a tetrahedron intersect, and show how the point of intersection divides the median.

2. (*a*) Deduce the relation $\gamma^c = \beta^b \alpha^a$, where a, b, c are sides of a spheric triangle, and α, β, γ are unit vectors respectively perpendicular to the planes of the sides.

(*b*) Prove the theorems (i) $\cos c = \cos a \cos b + \sin a \sin b \cos C$. (ii) $\cos b \sin a = \sin b \cos a \cos C + \sin c \cos B$.

3. Show that $a V\beta\gamma + \beta V\gamma a + \gamma V a\beta$ is a scalar.

4. Devlop the vector equation of the common line of two given planes.

5. Explain the meaning of $\varphi\rho$ when $S\rho\varphi\rho = 1$ denotes an ellipse.

6. The equation $\nu = \left(1 + \frac{m}{a^2}\right) xi + \left(1 + \frac{m}{b^2}\right) yj$ denoting the normal to an ellipse, show that $\xi = \frac{c^2 x^3}{a^4} i + \frac{c^2 y^3}{b^4} j$ is the equation of the evolute.

7. If p_1, p_2, p_3 be orthogonal perpendiculars from the centre of an ellipsoid to tangent planes, show that $p_1^2 + p_2^2 + p_3^2 = a^2 + b^2 + c^2$.

HONOURS.

Conics II.

1. Given the conic $2x^2+3y^2-4xy+2x-6y+1=0$, find (a), the coordinates of the centre; (b) the angle between the x—axis and the principal axis of figure; (c), the equation of a diameter through the origin.

2. Given the conic $x^2+by^2+2hxy+2gx=0$, find (a), the radius of the osculating circle at the origin; (b), a geometric construction for the circle.

3. (a) Find the chord joining $\alpha'\beta'\gamma'$ and $\alpha''\beta''\gamma''$ on the conic $l\beta\gamma+m\gamma\alpha+n\alpha\beta=0$; and ($b$) develope the tangential equation of the conic.

4. The radical axis of the circumcircle and the nine-points circle is the axis of perspective of the fundamental triangle and its pedal.

5. Find the equation of the circle which osculates the parabola $y^2=4ax$ at the point where $x=a$.

6. If S have double contact internally with S′, any four tangents to S have the four points of contact, and the two sets of four points of section of S′, equianharmonic.

7. Discuss the equation $\sqrt{C}=\sqrt{C'}\sqrt{\mu}$, when $C=0$ and $C'=0$ are circles, and μ is a variable parameter.

HONOURS.

Determinants and Theory of Equations.

1. Explain how to determine the sign of any given term of a determinant which is expressed in matrix form; and find the sign of the secondary diagonal term of a determinant of order n.

2. Given that the volume of a tetrahedron in terms of the coordinates of its vertices is $\frac{1}{6} \mid x_1 y_2 z_3 u_4 \mid$, when $u=1$, show that the volume of the tetrahedron enclosed by the planes $a_1x+b_1y+c_1z+d_1=0$, $a_2x+b_2y+c_2z+d_2=0$, etc., is $\mid a_1b_2c_3d_4 \mid^3 \div 6D_1D_2D_3D_4$ where D is the co-factor of d in $\mid a_1b_2c_3d_4 \mid$.

3. $\mid a_{11}a_{22}\ldots a_{66} \mid$ is a skew symmetric determinant. Expand it by Cauchy's method, and express the result as the square of a rational function of its elements.

4. Find the condition, in matrix form, that $p_0x^3+p_1x^2+p_2x+p_3=0$ and $q_0x^3+q_1x^2+q_2x+q_3=0$ may have one root in common.

5. (a) Show that by a change of variable the reciprocal equation $x^{2n}+p_1x^{2n-1}+\ldots\ldots+p_1x+1=0$ can be reduced to one degree n. (b) Solve the equation $x^7+3x^6+7x^5+10x^4+10x^3+7x^2+3x+1=0$.

6. Using Cardan's method, find the 3 roots of the cubic $a_0x^3+3a_1x^2+3a_2x+a_3=0$. Point out any difficulties in the use of this method in the case of numerical equations with real roots; and explain a trigonometric method of solving these equations.

7. State and prove Sturm's theorem for the separation of the roots of an equation; and illustrate by finding the nature and position of the roots of $x^5-10x^3+6x+1=0$.

Preliminary Honour Physics.

Dynamics.

1. A beam 30 ft. long weighing 1 ton is supported at the ends and carries loads of 5 tons and 15 tons at points 10 ft. and 20 ft. from one end. Show how to find graphically the pressure on the supports indicating a proof of the method.

2. What is the hodograph of the path of a body moving in a curve? How is it used? Employ the hodograph to find the acceleration of a point moving uniformly in a circle.

3. Show how to find the resultant of two simple harmonic motions of the same period at right angles to one another. Give an illustration of such motion.

4. Interpret the equation $y=a\ \cos 2\pi(x/\lambda - t/T)$.

5. Find the moment of inertia of a circular disc about its axis. A cylinder is rolling along a horizontal plane with velocity v and comes to an incline. How high will it ascend?

6. A body hanging from a fixed axis is struck a blow at any point. Determine its motion and express the impulsive pressure on the axis.

7. (*a*) Define the elastic constants, E, n, and k, and describe an experiment by which any one of them may be measured. (*b*) Prove that $1/E=1/9k+1/3n$.

8. A rectangular bar 1 m. long 3 cm. wide and 1 cm. thick is used as a compound pendulum, the axis being parallel to the shortest edges and 10 cm. from one end. Find its period of vibration.

Preliminary Honour Physics.

Hydrostatics and Heat.

1. An opening 4 feet square in the face of a vertical dam is closed by a door hinged at the two upper corners and kept from opening by two bolts, one at each of the lower corners. Find the force exerted on each bolt when the water is at the level of the hinges.

2. The simultaneous readings of barometric pressure (corrected for temperature) at the top and bottom of a mountain are 74·36 and 75·29. Assuming that the temperature is everywhere 15° and that the air is dry, calculate the height of the mountain. R for air is $2{\cdot}88 \times 10^6$.

3. Give an account with equations of Quincke's method of measurement of surface tension by the maximum thickness of drops.

4. The allowable pressure on a boiler of 36 inches diameter made of $\frac{1}{4}$ inch plate of tensile strength 50000 lbs. per square inch, is given as 140 lbs. per square inch. The strength of the double riveted joint is 70% that of the material. What is the factor of safety allowed?

5. Establish the equation for an adiabatic curve.

6. In Wilson's cloud-forming experiments a volume of air at 15° was suddenly expanded to 1·33 times its original value. Assuming adiabatic expansion, calculate the lowest temperature reached. Establish the formula used.

7. (*a*) Show that the ratio of the adiabatic elasticity to the isothermal elasticity is the constant γ. (*b*) Calculate γ for air from the following data:—Velocity of sound in air at zero and 76 cms. is 33200 cms. per second. Density of air under the same conditions is 0·00129.

8. Show that the pressure on a fully radiating fully absorbing surface is one third of the energy density of the radiation.

Queen's University Examinations: April, 1906.

FACULTY OF ARTS.

Preliminary Honour Physics.

FACULTY OF PRACTICAL SCIENCE.

Physics IV.

[Only seven questions to be answered.]

1. A sphere (5 cm. radius) is connected to the ground by a long vertical wire, and a second sphere (1 mm. radius) charged with 1 electrostatic unit is brought 50 cm. above the center of the first. What quantity of electricity is induced on the larger sphere?

2. A small gold leaf electroscope is connected to the insulated plate of a parallel plate condenser (plates 20 cm. diam.) When the plates are 0·01 mm. apart a P.D. of 110 volts is established from a lighting circuit and the system is insulated. As the condenser plates are drawn apart the leaf rises, deflections of 10°, 25°, and 40° are obtained when the plates are respectively 0·1 mm., 0·2 mm. and 0·3 mm. apart. What are the potentials indicated by these deflections on this electroscope?

3. Write short notes on :—(*a*) Determination of the velocity of gaseous ions, (*b*) Cathode rays, (*c*) Coefficient of recombination.

4. (*a*) Establish the formula for the potential, at a given point, due to a given magnetic shell.

(*b*) What meaning do you attach to the sign of the solid angle in the above case?

5. Describe a D'Arsonval galvanometer (moving coil) and obtain the formula connecting its steady deflection with the intensity of the current passing through it.

6. Give a brief account, with equations, of Lorenz's method for the determination of the absolute value of the ohm.

7. Prove that the work done in taking a unit magnetic pole around a current of strength i is $4\pi i$.

8. Show that the ratio of the electrostatic unit of current to the corresponding electromagnetic unit is of the dimensions of a velocity.

Honour Experimental Physics.

[Any seven questions.]

1. Explain how "moment of inertia" enters into the equations of dynamics and describe a method of measuring the moment of inertia of any body.

2. How is the surface tension of a liquid measured? Describe a few experiments illustrating surface tension.

3. Define the emissive and the absorptive power of a body. How is it proved that these are equal? Explain the dark lines of the solar spectrum.

4. Explain Doppler's principle. How is this principle applied to measure the velocity of a star to or from the earth?

5. Describe Foucault's method of measuring the velocity of light.

6. What are the "magnetic elements"? State generally how they vary from place to place and from time to time. How are they shown on maps?

7. You have an ammeter which is supposed to measure currents directly in amperes. Describe the experiments required to determine absolutely the correctness of its readings.

8. Outline the kinetic theory of matter. How are pressure and temperature expressed in terms of this theory?

Final Honour Physics.

Analytical Statics.

1. (*a*) Show how to find the resultant of two couples not acting in the same plane. (*b*) Express the magnitude and direction of the couple which is the resultant of three couples, L, M, N in three perpendicular planes.

2. Find suitable formulae for calculating the Cartesian coordinates of the centre of gravity of a sector of a curve whose polar equation is given. Employ them to find the c. of. g. of a loop of the curve $r=a\cos 2\theta$.

3. (*a*) Prove Gauss' theorem $\int N dS = 4\pi M$, stating the meaning of each of the symbols.

(*b*) Prove that a homogeneous spherical shell attracts an external particle as if all its mass were at its centre.

(*c*) Prove that $\nabla^2 V = 4\pi\rho$.

4. Six equal heavy rods jointed at their ends form a hexagon. One side is held horizontal, and the hexagon is kept regular by a light horizontal rod connecting opposite corners. Find the stress in the rod.

5. Three rods form a fixed horizontal triangle, and a smooth heavy sphere rests upon the triangle. Show that the pressures on the rods are proportional to the sides of the triangle.

Final Honour Physics.

Dynamics of Rigid and Elastic Bodies.

1. (*a*) Write formulae connecting the moments and products of inertia of a body about any axes with those about parallel axes through its centre of mass. (*b*) Express the moments and products of inertia of a cuboid (a,b,c) about three intersecting edges. (*c*) Write the equation of the momental ellipsoid at a corner of the cuboid and explain the property of this ellipsoid.

2. (*a*) Find the moment of inertia of a sphere about a diameter. (*b*) A small sphere (radius r) is placed upon a concave lens (radius of surface R) and slightly disturbed. Find its period of vibration.

3. Prove that the distance between the axes of a reversible pendulum is equal to the length of the equivalent simple pendulum.

4. If a body has an angular velocity ω about an axis through the origin making angles α,β,γ, with the axes, express the velocities of a point (x,y,z) parallel to the axes.

5. A body hanging by a wire of length l, radius r, is set in (torsional) vibration. Show that the period is $2\pi\sqrt{2lI/\pi na^4}$.

6. If u,v,w are the components of the displacement at a point in an elastic solid, e,f,g the extensions, a,b,c the shears, $\frac{1}{2}\xi$, $\frac{1}{2}\eta$, $\frac{1}{2}\zeta$ the rotations, show that $e=\partial u/\partial x$, $a=\partial w/\partial y+\partial v/\partial z$, $\xi=\partial w/\partial y-\partial v/\partial z$, etc.

7. Show that the three equations of the type

$$\rho\partial^2 u/\partial t^2=m\partial\delta/\partial x+n\nabla^2 u$$

may be separated into the equation

$$\rho\partial^2\delta/\partial t^2=(m+n)\nabla^2\delta$$

and three equations of the type

$$\rho\partial^2\xi/\partial t^2=n\nabla^2\xi.$$

Interpret these equations.

Final Honour Physics.

Dynamics of a Particle.

1. If a point is moving in a plane curve express its accelerations along and perpendicular to the radius vector.

2. (*a*) Write the equation of motion of a body at a great distance from the earth's surface under the attraction of the earth.

(*b*) Find the velocity gained by falling from an infinite distance to the earth's surface.

3. (*a*) With what velocity and in what direction must a particle be projected from the origin to pass through the point (x,y) in a direction making an angle β with the horizon?

(*b*) Prove that the area swept out by the radius vector of a projectile drawn from the point of projection varies as the cube of the time describing it.

4. (*a*) Show that the polar differential equation of the path of a particle acted on by a central attraction P is

$$\frac{d^2u}{d\theta^2}+u-\frac{P}{h^2u^2}=0.$$

(*b*) If $P=\mu u^2$ write the integrated equation of the orbit, and find the velocity at distance R that the orbit may be a parabola.

(*c*) If the latus rectum of the (parabolic) orbit of a comet is a diameter of the earth's orbit (circular) find what fraction of a year the comet will remain within the earth's orbit and compare the maximum velocity of the comet with the velocity of the earth.

(*d*) Show that the amount of light received by a planet

in one revolution is proportional to the square root of the latus rectum of its orbit.

5. In descending from any point of a smooth inverted cycloid to the vertex a particle descends half the vertical distance in half the time.

6. Discuss briefly the general motion of a simple pendulum.

Final Honour Physics.

Electricity and Magnetism.

1. A charged sphere (of mass m radius a and charge e) moves with a velocity v, which is sufficiently small to permit the distribution of Faraday tubes to be sensibly the same as when the sphere is at rest. Show that the momentum of the system is

$$\left(m+\tfrac{2}{3}\frac{ne^2}{a}\right)v.$$

2. Write a short note on Kaufmann's experiments on the increase of apparent mass with increase of velocity.

3. (*a*) Obtain expressions for the magnetic and electric forces in the pulse set up by the sudden stopping of the charged sphere of the first question above. (*b*) Discuss the application of this to the theory of X rays.

4. Give a short account of the determination of the *coefficient of recombination.*

5. Describe the method used by Prof. J. J. Thomson to determine e/m for the electrons liberated by ultra violet light.

6. What are "rayless changes"? What proof have we of their existence?

7. How were e/m and v obtained for the α rays of radium?

Final Honour Physics.

Physical Optics.

1. Show that two perpendicular simple harmonic vibrations in different phases are equivalent to an elliptic vibration. Describe and explain any optical phenomenon depending on this principle.

2. State the "principle of least time," and give one illustration of its application.

3. How is a concave grating made? Prove that with the ordinary method of mounting the wavelength of a line is proportional to its distance from the slit.

4. State briefly the evidence that the direction of vibration in a ray of plane polarized light is perpendicular to the plane of polarization.

5. State the hypotheses of Fresnel's theory of reflection and refraction, and write the equations connecting the amplitudes of the incident, reflected, and refracted rays when the incident light is polarized (*a*) in the plane of incidence, (*b*) perpendicularly to the plane of incidence.

6. Describe anomalous dispersion. What is the relation between absorption and dispersion?

Final Honour Physics.

Heat.

1. Show that for any reversible cycle $\int \frac{dQ}{T} = 0$.

2. Obtain the expression for the change of internal energy of a substance with change of volume at constant temperature, and show that for the ideal gas this change is zero.

3. Derive the "first latent heat equation" and apply it to calculate the lowering of the freezing point of water by pressure. Density of ice at $0° = 0{\cdot}916$, of water $= 0{\cdot}998$. Latent heat of water $= 80$. $J = 4{\cdot}17 \times 10^6$.

4. Establish Stefan's law that in an enclosure at uniform temperature the energy density is proportional to the fourth power of the temperature.

5. Explain the meaning of critical temperature and critical pressure, and describe the behaviour of a substance in the neighbourhood of the critical point.

6. Describe Forbes' method of measuring the thermal conductivity of a metal.

PRELIMINARY HONOURS.

Botany.

FIRST PAPER.

1. Make a list, in the following tabular form, of the plants contained in the bundle submitted:

No.	Order.	Genus.	Species.

2. Select from the bundle submitted one specimen belonging to each of the following orders, and describe it, as accurately as you can, under the following heads:—(1) Root, (2) Stem, (3) Leaves, (4) Flowers, (5) Fruit.

1. Leguminosae.
2. Compositae.
3. Labiatae.
4. Liliaceae.

3. Make a list of the plants in the bundle having the following forms of inflorescence:—(1) Raceme, (2) Umbel, (3) Corymb.

PRELIMINARY HONOURS.

Botany.

SECOND PAPER.

Morphology.

1. Describe the development of the Dicotyledonous embryo as exhibited in the maple.

2. Explain how the growth of the root differs from that of the stem, and state any advantage you know of its mode of growth.

3. What are the living parts of a tree or shrub, and how often are they renewed?

4. Describe any two ways in which leaves are specialized for the utilization of animal matter.

5. State the difference between dehiscent and indehiscent fruits, and give examples.

6. Describe or give a drawing of (*a*) an orthotropous, (*b*) a campylotropous, (*c*) an anatropous ovule.

7. Describe and give examples of (*a*) aggregate, (*b*) accessory, (*c*) multiple or collective fruits, and give examples.

8. Explain what is meant by neutral flowers, and give examples.

9. Define or draw (*a*) a Raceme, (*b*) Corymb, (*c*) Head, (*d*) Panicle, (*e*) Ament.

10. Give any laws according to which the leaves are arranged on the stem.

PRELIMINARY HONOURS.

Botany.

THIRD PAPER.

Physiology and Ecology.

1. Describe (*a*) a plant cell wall. (*b*) The live portion of the cell consists of four parts; give a brief description of them.

2. What are the conditions necessary to growth? Explain the need of any three of them.

3. Show by description, or by a drawing, how the winter buds of horse-chestnut are protected.

4. Describe any two ways in which leaves are arranged on plants so as to secure the largest amount of sunlight.

5. Explain how it is that house-plants growing near a window bend over towards the window.

6. Mention any three adaptations of plants for reducing transpiration and explain any two of them.

7. Describe any adaptations of plants for storing water.

8. Explain any three ways in which plants protect themselves against herbivorous animals.

9. Explain any three ways in which the spores of plants are distributed.

10. Describe any two ways in which carnivorous plants secure the necessary nitrogen for food.

FINAL HONOURS.

Botany.

FIRST PAPER.

Practical Work.

A.

1. Make a list, in the following tabular form, of the plants submitted:

No.	Order.	Genus.	Species.

2. Select one specimen from each of the following groups and describe (*a*) its structure, (*b*) its mode of reproduction:

1. Algae.
2. Fungi.
3. Hepaticae.
4. Musci.

B.

3. Make a list of the plants submitted in the form given above.

4. Select one specimen from each of the following orders, and describe it under the heads, (1) Order, (2) Genus, (3) Species:—Filices, Equisetaceae, Lycopodiaceae, Graminaceae, Cyperaceae.

FINAL HONOURS.

Botany.

SECOND PAPER.

Morphology and Histology.

1. Explain the arrangement of the lateral members of plants on a common axis, under the following heads: (1) Radial arrangement, (2) isobilateral arrangement, (3) dorsiventral arrangement.

2. The two principal types of branching may be distinguished as the dichotomous and the lateral. Give a description or drawing of the two forms that occur in each of these.

3. Describe the general morphology of the asexual reproductive organs under the heads: (*a*) the sporangium, (*b*) the sporophore, (*c*) the sporophylls

4. Describe the general morphology of the sexual reproductive organs under the following heads: (*a*) The gametes, (*b*) the gametangia, (*c*) the gametophore.

5. Explain the following modes of cell-formation: (1) Cell-formation without division of the cytoplasm, (2) cell-formation with division of the cytoplasm.

6. Mention any four of the seven forms of permanent tissue and briefly describe any three of them.

7. Describe the three kinds of growing points.

8. Mention the three tissue-systems and describe one of them.

FINAL HONOURS.

Botany.

THIRD PAPER.

Physiology.

1. "There are two sets of chemical processes continually and simultaneously going on in livnig protoplasm. These two constitute the metabolism of the plant." Explain or describe the action and result of these two processes.

2. Explain the vital or physiological functions of any two of the following tissues: (1) The Tegumentary Tissue, (2) the Parenchymatous Tissue, (3) the Sclerenchymatous Tissue, (4) the Tracheal Tissue of the Xylem, (5) the Sieve Tissue, (6) the Glandular Tissue.

3. How do plants obtain the necessary supply of energy and how do they expend it?

4. Of the six principal causes, or stimuli, of movement, or change of movement in plants, explain or describe the action of any three.

5. Write notes on (1) Vegetative Multiplication, (2) Spore Reproduction, (3) Sexual Reproduction.

6. Mention the essential elements of plant food and the sources from which any four of them are obtained.

PRELIMINARY HONORS.

Junior Physiology.

1. Explain the origin of the *pulse.* How is it lost in the capillaries and veins.

2. What is the origin, structure, function, and fate of the red blood cells.

3. What is the source of the *succus entericus?* What is its chemical reaction? Its action on foodstuffs.

4. How is heat generated in the body; how distributed; and how lost?

5. Indicate the different avenues by which all waste matters are removed from the body, and specify the varying kinds and quantities removed by each.

6. Explain the various uses of water in the physiological processes of the body, also the use of starch.

7. Locate some of the important centres in the spinal bulb, and tell how they are acted upon and react to stimuli.

8. Explain and illustrate what is known as the law of specific sensation. How does the strength of sensations vary? Distinguish a subjective sensation from an objective one.

PRELIMINARY HONOURS.

Histology.

1. Define tissue. Name the tissues of the body, with the sub-classes of any *one*.

2. Give the distribution of (*a*) endothelium, (*b*) transitional epithelium.

3. Draw and describe a cross section of (*a*) artery, (*b*) small intestine.

4. Write notes on sarcolemma, neurilemma, demilune cell, striped muscle, and ciliated epithelium.

HONOURS.

Animal Morphology.

1. Write an account of the development of an Ascidian, pointing out its chordate (vertebrate) affinities.

2. Describe the genito-urinary system of the male frog and compare it with that of the skate.

3. Point out the differences between the alimentary tract of the pigeon and that of the rabbit.

4. What are the chief orders of fishes? Give the distinguishing features and examples of each order.

5. A cross-section is made through the mid-region of the amphioxus lancealatus. Describe what is seen when examined through the low power.

6. Explain how the body of a vertebrate embryo is formed. Draw a diagram showing the parts in a transverse section through the region of the eye of an embryo chick.

FINAL HONOURS.

Physiology.

1. Distinguish the structure of the vaso-constrictor nerve fibres from the vaso-dilators, and trace the course of the former.

2. Give the composition of the gastric juice and specify its action upon the foods.

3. Describe the changes which take place in blood in respiration. Explain what is meant by hæmolysis. What is the spectroscopic test for blood?

4. Distinguish the different kinds of lymphatic vessels. Explain the re-absorption of lymph.

5. Describe the circumstances which determine the flow of pancreatic juice. Also the circumstances which affect the quantity of bile secreted. Specify the functions of these juices.

6. Locate the chief association areas of the brain, and explain how they differ from other areas.

7. Explain how binocular vision is secured. Describe the muscular mechanism for movements of the eyeballs.

8. Explain the conduction of sound waves from the tympanum through the bones of the middle ear. Describe the two classes of auditory sensations.

FINAL HONOURS.

Histology.

1. Write explanatory notes on perineurium, membrane of Descemet, central canal of spinal cord, Haversian system and villus.

2. Describe (*a*) the connective tissue in connection with the histology of a testis, (*b*) the lining epithelium from the beginning of a seminiferous tubule to the urethra.

3. Give the minute structure of the oesophagus.

4. Describe a gastric fundus gland and distinguish clearly a pyloric one.

5. Identify, draw and describe the specimens submitted.

PRELIMINARY HONOURS.

Organic Chemistry.

1. Discuss *acetic anhydride* under the following heads: (*a*) The various methods of preparation, (*b*) uses in synthesis, (*c*) analogies to inorganic acid anhydrides, (*d*) action of reducing agents, (*e*) relations to other organic compounds.

2. Discuss *diazo amidobenzene* under the following heads: (*a*) preparation, (*b*) constitution, (*c*) isomeric changes, (*d*) decompositions, (*e*) characteristic properties and reactions.

3. Write an account of *chloroform* and related compounds.

4. Discuss *etherification* and the *ethers*.

5. Discuss *esters*, using methyl oxalate as an example.

6. Discuss *alkyl nitrites* and "*nitro*" *compounds*.

Industrial Chemistry.

[Not more than ten questions to be attempted.]

1. How can the pressure exerted by an explosive be calculated? Illustrate by an example.

2. What is considered to be the chemistry of the setting of cement?

3. Discuss shortly white lead and its substitutes.

4. Give a general outline of the manufacture of sulphuric acid and describe in detail any particular portion of the plant and the operations that go on in it.

5. Discuss fertilisers, *or* arsenic compounds, *or* potash, *or* glass, *or* peroxides, *or* permanganates.

6. Describe the manufacture of phosphorus, preferably by the electrolytic method. Discuss the chemical action.

7. Discuss the process of making water-gas for illuminating purposes as carried on in Kingston.

8. What are the main products of distillation of wood? How are they affected by temperature and rate of heating?

9. Discuss various ways of "fixation" of atmospheric nitrogen with special attention to any one of them.

10. What different tests are applied to fats and oils and what is the object of each?

11. Discuss some problems of the oil industry.

12. Discuss any recovery process with as much detail as possible in the time.

13. Discuss features of industrial chemistry from a business point of view.

PRELIMINARY HONOURS.

Chemistry.

Crystallography.

1. Explain what is meant by the following crystallographic terms, giving an example in each case: (*a*) crystal form, (*b*) hemihedrism, (*c*) limiting form, (*d*) pseudo symmetry, (*e*) parameter, (*f*) truncation.

2. From the most general form of the tetragonal system deduce the simple holohedral forms of this system by giving limiting values to the parameters m and n.

3. Describe the crystallographic symmetry and axes of the monoclinic system.

4. Give Weiss's system of nomenclature, using the fixed forms of the isometric system as examples.

5. Explain the most prominent twinning-law in the isometric system.

PRELIMINARY HONOURS.

Physiological Chemistry.

1. Discuss the synthesis of *fats* in plants, their constitution, and their origin in animals.

2. Outline the theory of the origin of *albumins* in plants, indicating the experimental evidence in support of the theory.

3. Discuss the constitution and characteristic properties of the *monosaccharides*.

4. Write an account of *ornithin*.

5. Discuss the *kreatins*.

FACULTY OF ARTS (HONOURS.)
AND FACULTY OF PRACTICAL SCIENCE.

Physical Chemistry.

[Not more than ten questions to be attempted.]

1. Why are the equivalents not taken as the atomic weights?

2. What is the relationship between the specific heats of a gas at constant pressure and at constant volume and how is it made use of to determine the atomic weight of argon?

3. Show how the temperature of a gas depends upon the velocity of its particles.

4. Give the principle underlying the method usually employed for the liquefaction of air and show that the process depends upon the gas laws not applying perfectly.

5. Apply the phase rule to the case of the boiling point of two partially miscible liquids *or* to a salt solution in the liquid phase only *or* to the dehydration of a salt.

6. What is meant by specific rotary power? How does the optical activity of liquids differ from that of solids? Upon what does the optical activity of liquids depend?

7. Show that the elevation of the boiling point or the lowering of the freezing point may be used instead of osmotic pressure measurements in determining molecular weights. How is the molecular weight determined from the boiling point?

8. Trace out the similarities between the gas laws and those of dilute solutions.

9. What is meant by transport numbers? How can their value be determined experimentally?

10. How does the dissociation theory account for the process of chemical reactions such as oxidation, reduction, and the action of double cyanides? Give other examples if possible.

11. How are the relative strengths of acids and bases determined?

12. Describe balanced actions and show how they are connected with rate of chemical transformation. What things affect the balance?

13. Develop van der Waals' equation in such a way as to show how the constants are connected with the critical factors.

FINAL HONOURS.

History of Chemistry.

Discuss any *five* of the following subjects :

1. Paracelsus as a chemist.
2. Boyle and the elements.
3. The Phlogiston theory.
4. The discovery of oxygen.
5. Cavendish.
6. Lavoisier and the laws of combination.
7. Dalton's atomic theory.
8. Berzelius, Davy, and electrochemical theories.
9. Growth of the idea of chemical constitution.
10. Cannizzaro's contributions to chemical science.
11. Influence of organic chemistry on the choice of atomic weights and on the doctrine of valence.
12. History of stereochemistry.

PRELIMINARY HONOURS.

Mineralogy.

Crystallography.

1. Give in detail the crystallography of quartz.

2. Give with examples the prominent twinning-laws in (*a*) the tetragonal system, (*b*) the monoclinic system, (*c*) the hexagonal system.

3. Describe the most important hemihedral form in the orthorhombic system and show how it is produced.

4. Sketch a basal section of the hexagonal pyramid of the first order, showing the axes. Letter the axes and give Miller's symbols for the six upper faces of the pyramid.

5. With the materials supplied set up the crystals in oriented position, make sketches, name the forms present, state how the faces of the forms present mutually affect one another, and give Miller's symbols for each form.

PELIMINARY HONOURS.

Systematic Mineralogy.

1. Define *mineral.* Criticise your definition.

2. Show the uses of a knowledge of crystallography in the study of mineralogy.

3. Discuss *distortion* in crystals.

4. Explain the use of heavy solutions in determining the specific gravity of minerals.

5. Explain what is meant by (*a*) gliding-planes, (*b*) corrosion-forms, (*c*) sclerometer, (*d*) etching-figures, (*e*) complementary colors, (*f*) polarization by absorption.

6. Using monochromatic light and the refractometer (goniometer) tell how the index of refraction is obtained for calcite. Trace the course of the light rays. Make diagrams.

7. Show how the polarization microscope may be employed to detect twinning in crystals.

FINAL HONOURS.

Mineralogy.

Descriptive and Determinative.

1. Describe the pyroxene and amphibole groups of minerals. Compare and contrast. Note similarities, differences and occurrences.

Practical.

2. Determine the lettered specimens by field tests and the numbered specimens by the blowpipe.

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Petrography I.

1. State how you might, by microscopical methods, distinguish between (*a*) albite and andesine; (*b*) diopside and hornblende; (*c*) olivine and hypersthene.

2. Define: "optically positive," "axes of elasticity," "compound laccolite," "ophitic," "panidiomorphic."

3. How would you determine the directions of vibration of light through the nicols of your microscope?

4. What is meant by "Pleochroism, $C > B > A$"? How would you determine this in a mineral in thin section.

5. Define the term gneiss, and describe the chief modes of formation of gneisses.

6. A rock with a porphyric texture has the following composition: SiO_2 48·5, Al_2O_3 18·0, Fe_2O_3 3·0, FeO 6·4, CaO 11·0, MgO 8·0, Na_2O 2·7, K_2O 0·8, S.G. 2·85. Name the rock.

7. Describe the results from the ordinary weathering of a granite.

8. Give a description of the rocks: phonolite, melaphyre, norite, oolite, quartzite, hornfels, sericite-schist, pegmatite, kersantite, granodiorite.

9. What characters of a rock need to be determined in order to properly classify it, and how is this necessary information to be gained?

10. How would you determine the relative ages of igneous rocks in contact with one another?

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Economic Geology I.

1. "Veins must be superficial phenomena." Discuss this statement fully.

2. Explain fully the formation of bog ores.

3. How would you recognize metasomatic replacement?

4. Account for the changes sometimes observed in a vein passing from one rock to another, and when followed in depth.

5. Describe some of the more important alterations of country rock by "mineralizing agents."

6. Mention minerals commonly associated in (*a*) tin deposits; (*b*) silver deposits; (*c*) zinc deposits.

7. Describe the system you would adopt in prospecting a Northern Ontario Iron Range.

8. Note differences in mode of occurrence of copper in three important copper districts.

9. Describe the zinc occurrences in Canada.

10. Write notes on two silver regions of Ontario.

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Geology.

NOTE.—Candidates in Arts and Course C. (Mineralogy and Geology) will take all of Part I., and omit Part II.; others will take any five questions of Part I. and all of Part II.

I.

Geology of Canada.

1. Give the subdivisions of the Carboniferous. Where do rocks belonging to these subdivisions occur in Canada? Describe fully how you would recognize them.

2. Write notes on the geology of South-western Ontario, noting chiefly the general characters and ages of the rocks and the other fossils.

3. Classify the Post-Cainozoic deposits of Canada and discuss the Erie, Saugeen, and Leda clays.

4. In what formations and in what parts of Canada would you prospect for the following products: lignite, corundum, amber mica, anthracite, native copper, auriferous mispickel, asbestos, gypsum, graphite, limestone for Portland cement.

5. Give the classification of the Pre-Cambrian rocks recently recommended by the International Committee, and give a short description of the Laurentian in Eastern Ontario.

6. "Canada is bisected by a line of weakness, marked by a continuous drainage channel, and the area east of this line differs entirely from that west of the line." Discuss this statement.

7. Describe the Rocky Mountains under the following heads: topography, age of the rocks, method of formation, and economic products.

II.

General Geology.

1. Show how the transporting power and the erosive power of a current vary with the velocity.

2. Discuss the statement: "All sedimentary deposits are stratified and all stratified (sorted) material is sedimentary."

3. Describe the mode of formation of limestone.

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Petrography II.

1. Mention the most useful petrographical methods for the determination of (*a*) feldspars, and (*b*) pyroxenes.

2. Classify the members of the Syenite family, giving, where possible, a Canadian occurrence of each.

3. Discuss the means by which an igneous rock attains its place in the solid crust of the earth.

4. How may the relative percentages of the mineral constituents of a rock to be determined?

5. What is the order of crystallation of the minerals in rhyolite, gabbro and gneiss? In what way does this affect the texture of the rocks?

6. Discuss contact and regional metamorphism.

7. "Rocks are the geologically independent units, of more or less constant chemical and mineralogical composition, out of which the solid crust of the earth is built". Discuss fully this definition.

8. Define the rock types: tonalite, monzonite, pulaskite, dacite, propylite, amphibolite, eclogite, diabase, bostonite.

9. What rock has the following composition: SiO_2 55·52%; Al_2O_3 1·17%; Cr_2O_3 0·42%; Fe_2O_3 6·12%; Mg O 35 85%; CaO 2·23?

10. What are the commoner alteration products of feldspar and augite in gabbro?

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Economic Geology II.

1. Describe the copper districts, Rio Tinto, Spain; Butte, Mont.; Clifton, Ariz.

2. Write a brief paper on the Sudbury district, dealing with its geology, mineralogy, ore-deposits, genesis of its ores, production, and points of difference between it and the New Caledonian field.

3. Discuss the origin of the gold reefs of South Africa.

4. Mention gemstones found in Canada and point out its possibilities as a gem-producing country.

5. Give the chief coal horizons in Canada and account for the different grades of coal found in them.

6. Name the chief geological products used in cements and account for the differences in the qualities of the cements made from them.

7. Upon what petrological features of a rock does its value as a building stone depend? What rocks are most likely to possess these in a superior degree?

8. State the modes of occurrence and origin of salt. In what rocks are the commercial deposits of Canada found?

FACULTIES OF ARTS AND SCIENCE.

Preliminary Honour Geology and Geology II.

1. Describe the characters of a river in infancy, youth, maturity and old age.

2. What is meant by the terms "graded," "diastrophic," "rejuvenated," "aggradation," "peneplain," "consequent," "subsequent," "antecedent," "superimposed," "engrafted," "piracy?"

3. From what characters might you suspect the glacial source of a stream?

4. How would you recognize an ancient ground-moraine?

5. Define the term volcano. Discuss the theory of volcanoes.

6. Account for the formation of circular coral reefs.

7. Write a short article on the structure and origin of mountain ranges.

8. Discuss cleavage in rocks.

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Final Honour Geology and Geology III.

FIRST PAPER.

1. Explain what is meant by the tesms: anamorphism, distributive fault, dip fault, epeirogenic, irruption, geest, regolith, deceptive conformity, homotaxis.

2. Discuss the great periodic movements of the earth's body.

3. Mention five phenomena which furnishe evidence of the direction of movement of an extinct glacier, and show how they are to be interpreted.

4. How might you distinguish an aeolian sandstone from an aqueous one? How would you recognize wind-worn boulders, water-worn boulders and glacial boulders?

5. Mention the chief factors which determine the amount of corrosion by a stream.

6. Note the differences between the topography of a moist region and that of a dry.

7. Account fully for the Laurentian being a lake country.

8. Draw a diagram of a thrust-fault and show the displacement, throw, heave and stratigraphic throw.

9. Discuss sedimentation in a large body of water such as the ocean.

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Final Honour Geology and Geology III.

SECOND PAPER.

1. Outline the development of the science during the "Heroic Age of Geology."

2. Trace the advance in ideas concerning the nature and origin of rocks.

3. "William Smith has well merited the appellation of 'father of historical geology.'" Justify this statement.

4. Classify the Ordovician and Silurian systems into series and stages and mention some of the characteristic fossils found in the various stages represented in Ontario.

5. Show by means of rough map the continent of North America at the close of the Carboniferous.

6. Discuss the continuity of the chalk formation from the Cretaceous to the present in its relationship to geological chronology.

7. Give the geological history of the Great Lakes.

8. Summarize the gradual progress of evolution, noticing the causes of rapid changes of species.

DOCTOR OF SCIENCE.

Economic Geology.

1. Discuss the classification of economic deposits.

2. With a brief critique on the magmatic segregation theory as accounting for certain deposits.

3. From the description of the Mansfeldischen Kupferschiefer in Beck's Erzlagerstätten, pages 501+ what view would you form regarding the origin of the deposits?

4. Discuss the present condition of our knowledge regarding the Lake Superior iron deposits, and mention the points upon which you consider further light is required.

5. Along what lines does it appear probable that the greatest advance in the science of ore deposits will be made during the next decade.

6. Point out exceptional characteristics of the mica deposits of Ontario and Quebec.

DOCTOR OF SCIENCE.

Geology.

1. Use Canadian examples to illustrate the action of glaciers in modifying the topography of a district.

2. Discuss the conclusions reached by Williams in "Bearing of Some New Paleontological Facts on Nomenclature and Classification of Sedimentary Formations." (Bull. Geol. Soc. Am. vol. 16, pp. 137-150.)

3. Write notes on the principles to be applied in mapping the crystaline schists.

4. What training is most necessary for one who wishes to advance the science of geology?

5. Discuss the planetesimal hypothesis.

DOCTOR OF SCIENCE.

Petrography.

1. Write a critique on Rosenbusch's class of Dyke Rocks.

2. Discuss Daly's Mechanics of Igneous Intrusion (A.J.S. vol. 15, 1903) in the light of your personal knowledge.

3. How may ortho- and para-gneisses be distinguished?

4. Illustrate what is meant by "consanguinity" as applied to rocks.

5. From the following analyses discuss the character of the rocks:

	A.	B.
SiO_2	56.80	46.63
TiO_2		1.12
Al_2O_3	20.73	15.03
Fe_2O_3	6.27	5.91
FeO	5.43	5.09
MnO	.22	
MgO	2.90	3.47
CaO	0.94	11.23
Na_2O	1.08	8.16
K_2O	3.96	1.96
H_2O	1.11	0.35
	99.44	98.95

6. Mention points of petrographical interest illustrated by the specimens submitted.

DOCTOR OF SCIENCE.

Pre-Cambrian Geology.

1. Criticize Coleman's article (J. of G. vol. XIV. page 60.) on Pre-Cambrian nomenclature.

2. Discuss the use of the term Algonkian.

3. Write a brief paper on the history of geological work on the Pre-Cambrian of North America.

4. Discuss the economic possibilities of the different groups of rocks included in the Pre-Cambrian.

PRACTICAL SCIENCE.

For Papers in
Junior English,
Junior and Senior Chemistry,
Botany, and
Animal Biology

See Arts Pass Papers.

FACULTY OF PRACTICAL SCIENCE.

Mathematics I.

Algebra.

1. Put $\Sigma a^3(b-c)$ and $x^4-15x^2+10x+24$ into linear factors.

2. If $a/b=c/d$, prove that $\{(a-c)^2+(b-d)^2\}/\{(a-c)^2-(b-d)^2\}=(a^2+b^2)/(a^2-b^2)$.

3. Show that $(x^2-1)/(x-1)$ gradually approaches a definite value as x approaches 1, and find this value.

4. The strength of a rectangular beam varies as the width and as the square of the depth. A beam of width 7 and depth 9 will support a weight of 4000. How much can be supported by a beam of three times the dimensions?

5. (*a*) Show in any way how to find the maximum or minimum value of a quadratic expression. (*b*) The base of a triangle is 13, and the sum of the other two sides is 17. Find the sides when the area is the greatest possible.

6. With the same axes draw the graph of $x^2+y^2=25$ and $y-7x+25=0$. Explain the meaning of the common points of the graphs in relation to the two equations.

7. Sum the series $1^2+2^2+3^2+\ldots\ldots+n^2$.

8. Find a series of convergents to the number $\pi=3{\cdot}14159$, and estimate the error in putting the first convergent for the value of π.

9. Separate $1/(1-x^2)^2$ into partial fractions.

10. (*a*) Find x from $e^x=73$, when e is the Napierian base. (*b*) Find the cube root of $\frac{1}{2}\sqrt{0.2073}$ sin 31° 42′; and find also the Napierian logarithm of this number.

Mathematics I.

Trigonometry.

1. A railway curve has a radius of 18 chains; two radii determine an angle of 23° 42′ 36″; find the length of the arc.

2. (*a*) Develope the sign formula. (*b*) The azimuth of a point P from A is 107° 27′ and the distance is 40.63 chains, the distance from P to B, a point on the meridian through A is 51·29 chains. How far is B south of A? (*c*) Find the radius of the circle through A, B and P.

3. (*a*) $\frac{1-\cos\theta}{\sin\theta}=\tan\frac{\theta}{2}$.

(*b*) $1+\tan\theta\tan 2\theta=\sec 2\theta$.

4. (*a*) Transform the cosine formula into a form convenient for logarithmic calculation. (*b*) Find the angles of a triangle whose sides are 5008·2, 6540·2 and 10038·9 chains. (*c*) Find the area of this triangle.

5. (*a*) Draw the graph of $\sin\theta$ and deduce an expression for the system of angles having the same sine.

(*b*) $\mathrm{Sin}^{-1}x-\cos^{-1}y=\cos^{-1}\{y\sqrt{1-x^2}+x\sqrt{1-y^2}\}$.

Mathematics I.

Geometry.

1. The greater of two sides of a triangle has the greater angle opposite to it and conversely. Note the special case.

2. The mediums of a triangle are concurrent and are divided in the ratio 1 to 2.

3. Given a circle S and a point P, find the locus of the mid-point of the segment determined by P and the point in which a secant through P meets the circle. Give figures for P without, within, and on S.

4. In a line through A and B find a point C such that $AC^2 = 3AB \cdot CB$.

5. PBA and PDC are two secants to a circle S. Show that $PA \cdot PC = PC \cdot PD =$ a constant. Give figures for P without, within, and on S.

6. PBA is a secant and PT a tangent to a circle; TR is drawn perpendicular to PBA, and AX and BY are drawn perpendicular to PT; show that $TR^2 = AX \cdot BY$.

7. A point P is 9 inches from the centre of a circle whose radius is 6 inches; find the distance of the chord of contact of P from the centre.

8. A normal to a plane is perpendicular to every line in the plane.

9. Through four points one and only one sphere may be made to pass.

10. Find the radius of the sphere through the vertices

of a regular octahedron whose edge is 10 inches; also find the radius of the sphere touching the faces.

11. (*a*) Find the volume of a pyramid 12·6 feet high on a rectangular base 27 feet by 16·4 feet. (*b*) A sphere whose radius is 13 inches is cut by a plane 5 inches from the centre; find the volume of the segment removed.

FACULTY OF PRACTICAL SCIENCE.

Astronomy I.

Moon. (i) What is her horizontal parallax?

(ii) Find her distance, if her horizontal parallax is 57′.

(iii) Why is the full moon high in winter and low in summer?

(iv) What part does the moon play in (*a*) a solar, and and (*b*) a lunar eclipse?

(v) Explain any influence that the moon exerts on the earth.

Venus. (i) Explain how Venus is sometimes morning star, and sometimes evening star.

(ii) Find the time intervening between two consecutive occurrences of any one phase of Venus.

Mars. State (*a*) what you know in regard to the markings on Mars, and (*b*) any hypothesis in regard to these.

Jupiter. (i) Explain the oval form of Jupiter's disc.

(ii) Describe Reumer's discovery of the velocity of light.

Sun. Explain any method of finding the sun's distance.

Year. Define (*a*) the siderial year, (*b*) tropical year, (*c*) anomalistic year.

Queen's University Examinations: April, 1906.

FACULTY OF PRACTICAL SCIENCE.

Mathematics II.

FIRST PAPER.

1. Given the line $2y=4x-3$, find, (a) the coordinates of its intersection with $2y-x=3$, (b) its distance from (4, 1), (c) the equation of the line perpendicular to it through (4, 1).

2. L is a given line and F a given point at a distance 1 from L. A point P moves so as to be always equidistant from L and F. Show by a graph the locus of P, and find its equation.

3. Find the first derivative of
(a) $1/\sqrt{a^2-x^2}$, (b) $\sin^2\theta.\cos^2\theta$, ($c$) $\log\{(a+\sqrt{a^2-x^2})/x\}$,
(d) $(1-2x)\sin^{-1}x$, (e) $e^{\sec\theta+\tan\theta}$.

4. A cistern, cylindrical in shape, is to hold a given volume of water. Find the ratio of its diameter to its depth when it has a minimum surface, not including the top.

5. Show that the area of a curve with polar coordinates is given by $\frac{1}{2}\int r^2 d\theta$, and illustrate by finding the area of the circle.

6. Find the area between the curve $4y^2=1+x^2y^2$ and the x-axis, between the limits 0 and 1.

7. A variable ellipse, with a constant major axis equal to $2a$, moves with its plane perpendicular to the x-axis and with one end of its minor axis guided by the cycloid $x=a(\theta-\sin\theta)$, $y=a(1-\cos\theta)$. Find the volume generated through one loop of the cycloid.

FACULTY OF PRACTICAL SCIENCE.

Mathematics II.

SECOND PAPER.

1. (*a*) Show how to find the equation of the ellipse with semi-axes a and b from that of the circle of radius a. (*b*) Find the radii of curvature for the ellipse $4x^2+y^2=9$ at the ends of the major and minor axes.

2. (*a*) Using a figure show that $\left(\frac{ds}{dt}\right)^2=\left(\frac{dx}{dt}\right)^2+\left(\frac{dy}{dt}\right)^2$ and write a similar relation for polar coordinates. (*b*) Show that the length of the curve $y=f(x)$ is given by the integral $\int\sqrt{1+f'^2}\,dx$, and use it to find the length of the circumference of a circle.

3. Find the value of the integrals, —(*a*). $\int_0^2 \frac{x^3}{1+x^2}dx$, given that the common logarithm of 2 is 0·30103. (*b*) $\int_1^2 \frac{2dx}{x^2-4x+5}$, (*c*) $\int_0^{\frac{1}{2}} \frac{\sin^{-1}x}{\sqrt{1-x^2}}dx$. (*d*) $\int \sin^3\theta\cos^2\theta d\theta$.

4. A uniform plate, in the form of a sector of a circle of radius r, has an angle 2α at the centre O. Show that the centre of gravity is at a distance $\frac{2r}{3\alpha}\sin\alpha$ from O.

5. (*a*) Find the moment of inertia of a thin rod of length $2a$ about a line in its plane at a distance b from its centre, and making an angle α with its direction. (*b*) A rod 4 feet long oscillates about one end O. Find the

distance O P such that the oscillation remains the same if all the mass of the rod is centered at P.

6. The vertical end of a vessel 4 feet deep filled with water has the shape of a parabola with its vertex downwards, whose ordinary equation is $y^2 = 8x$. Find the position of the centre of pressure.

FACULTY OF PRACTICAL SCIENCE.

Spherical Trigonometry and Astronomy.

1. (*a*) State Pappus's theorm for (i) volumes, (ii) surfaces. (*b*) Find the volume described by a semicircle revolving about a line tangent at its middle point.

2. Give carefully the relations of a spheric triangle to a 3-faced corner.

3. (*a*) Prove the relation $\cos a = \cos b \cos c + \sin b \sin c \cos A$. (*b*) Develop a log-form for finding an angle when the three sides are given.

4. Prove the relation: area of a spheric triangle $= r^2 E$, where E is the spherical excess.

5. Describe the stereographic projection of the sphere, and show that circles project into circles.

6. (*a*) Explain the relation between apparent and geocentric latitude. (*b*) Find the geocentric latitude of a place whose apparent latitude is 32° *N.*, the earth's polar and equatorial radii being 3950 m. and 3964 m. respectively.

7. For α majoris, $R.A = 10h.56m$, $\delta = 60°24'N$, $\gamma = 45°46'N.$, $S = 10h.51m.$ on Sept. 3rd. Find the azimuth at greatest elongation, and the appoximate times of observation.

FACULTY OF PRACTICAL SCIENCE.

Physics I.

A. Dynamics and Properties of Matter.

1. A freight steamer drawing 15 feet of water approaches a lock with only 14 feet of water over the sill. How many bushels of wheat, of 60 lbs. each, must be moreved in order that the boat may enter the lock? Cross-section of the vessel at and near the water line is 13,000 sq. ft.

2. A glass tube 100 cms. long and 1 sq. mm. bore is sealed at one end. A drop of mercury completely fills the cross-section at 90 cms. from the closed end (barometer 76·4 cms.) The open end is now attached, by a stout rubber hose, to the city water supply, and as the pressure is turned on, the mercury advances 70 cms. along the tube. What is the head of water above the tap?

3. Describe the Venturi water meter, and state the principle involved in its use.

4. In 1899 it was proposed to propel an experimental boat by expelling backwards 8·2 gallons of water per second through a $\frac{5}{8}$ inch nozzle. (1 gallon=277 cubic inches.) Calculate the force of the reaction on the boat. NOTE:—The reaction is the same whether the jet discharges into the air or into the water.

5. A bicyclist turns a corner by moving in an arc of a circle of 200 ft. radius at a speed of 40 miles per hour. Find his inclination to the vertical.

Also ANY TWO *of the following problems:*

6. What is the sharpest turn that an automobile can make at 25 miles per hour without side-slipping, on a level track, the coefficient of friction being 0·20?

7. In a North Derbyshire colliery 6309 tons were raised from a depth of 509 yards in 6 days, winding from 7 A.M. to 3:30 P.M. If the time of hoisting were twice the time of descent and changing the tubs, find the H.P. required.

8. A train of 300 tons decreases its speed from 40 to 30 miles per hour in passing over a given mile of level track. If the frictional resistance be 14 lbs. per ton, find the work done by the engine in that mile.

9. A street car (5 tons mass, 20 H.P.) can carry 40 passengers of 150 lbs. mass. How much faster can this car run up a 4% grade when it is light than when it is fully loaded? Friction being 15 lbs. per ton.

FACULTY OF PRACTICAL SCIENCE.

Physics I.

B. Electricity, Magnetism, Sound, Heat, and Light.

1. A steel sphere (0·03 gr.) is suspended by a silk fibre and charged with +0·5 electrostatic units of electricity. Find the tension of the fibre when a second sphere with a charge of −10 units is placed with its centre 10 cm. below the first.

2. Do ions exist in a mixture of hydrochloric acid and water before a current is sent through it or does the current produce them? Give reasons for your answer.

3. (*a*) What is the value of the resultant magnetic force at Kingston if H=0·161 and dip=75°. (*b*) Describe the action and use of a relay.

4. (*a*) One Leclanche cell (E.M.F.=1·4 volts) is connected to a resistance of 4000 ohms and one of 5000 ohms in series. Wires from the ends of the latter are led to the terminals of a condenser. What is the P.D. of the condenser plates? (*b*) Electric power is transmitted from Niagara to Toronto at 60000 volts. Explain the choice of such a high potential.

5. Describe the construction and action of a transformer.

6. Two organ pipes of nearly the same pitch when "overblown" so as to reinforce the first overtone beat twice as fast as when gently blown to give the fundamental strongly. Explain this statement.

7. A glass bulb weighing 43 grams is filled with mercury at atemperature of 15° and found to weigh 561

grams. When it is placed in a vessel of water 4·4 grams of mercury run out. Find the temperature of the water. The coefficient of cubical expansion of glass $=0{\cdot}000025$, of mercury $=0{\cdot}000183$.

8. Using the centigrade scale, (1) the latent heat of water is 80, (2) the absolute zero is $-273°$, (3) for each degree a gas expands 1/273 of its volume at 0°. Write corresponding statements using the Fahrenheit scale.

9. Describe an experiment by which the latent heat of steam may be found.

10. (*a*) Write the formula connecting the distances of an object and its image from a lens, explaining how to determine the signs of the terms. (*b*) A reading glass ($f=6''$) is held $4''$ above a page of a book and the eye is $6''$ above the lens. Where do the letters seem to be and how large?

11. What is dispersion? Why is it necessary to avoid dispersion in constructing a telescope, and how is this done?

12. (*a*) Why do we call the two rays into which a ray of light is divided by a rhomb of Iceland spar polarized? (*b*) Describe a Nicol prism. (*c*) Of what use is polarized light?

FACULTY OF PRACTICAL SCIENCE.

Physics II.

[Any eight questions considered a full paper.]

1. A machine gun fires 300 one ounce bullets per minute with a velocity of 1600 ft./sec. Find the average pressure on the gun and the average horse-power at which it works.

2. Show that the acceleration of a body moving uniformly in a circle is $r\omega^2$ towards the centre. Deduce from this the acceleration of a body whose motion is simple harmonic.

3. A beam 15 ft. long carries loads of 5 tons and 15 tons at distances of 5 ft. and 10 ft. from one end. Show how to find graphically the reactions at the supports. Find them also by moments.

4. Show how to find graphically the velocity of a piston in any position, the speed of the crank being known. Also show that the same construction enables us to find the twisting moment applied to the shaft if we know the pressure on the piston.

5. (*a*) Show that the kinetic energy of a rotating body is $\frac{1}{2}I\omega^2$ where $I = \Sigma mr^2$. (*b*) Calculate the velocity gained by a sphere in rolling a vertical distance h down an inclined plane.]Moment of inertia of a sphere about a diameter is $\frac{2}{5}mr^2$.]

6. An engine is running at 90 R.P.M. while developing 200 H.P. The moment of inertia of its fly-wheel is $2{\cdot}25 \times 10^5$ (engineering units). If the load is increased to 300 H.P. while the steam supply is unchanged, by

what fraction will the speed of the fly-wheel be reduced in 3 seconds?

7. Show that a simple shear, θ, may be regarded as produced by an extension, e, in one direction and an equal contraction at right angles, and that $\theta = 2e$.

8. What is meant by the bending moment at any point of a loaded beam? If L is the bending moment and ρ the radius of curvature at any point show that $\rho L = EAk^2$ where Ak^2 is the moment of inertia of the section about the neutral axis.

9. A ball weighing 14 pounds hangs from a steel wire 20 ft. long and 0·0002 sq. in. in section. If it is displaced vertically show that its motion is simple harmonic and find its period. [$E = 2{\cdot}8 \times 10^7$ lbs./in^2.]

10. State the two laws of thermodynamics, and explain the following terms as used in thermodynamics: "isothermal," "adiabatic," "reversible," and "Carnot's cycle."

11. Explain the use in fluid motion of the equation

$$\frac{p}{\rho} + \tfrac{1}{2}s^2 + gh = \text{constant}.$$

A fire hose has a $\frac{1}{2}$ in. nozzle from which water issues with a velocity of 80 ft./sec. What is the pressure within the tube where the diameter is 2 inches?

FACULTY OF PRACTICAL SCIENCE.

Physics III.

1. Describe, with calculations and diagrams, the measurement of the absolute value of the capacity of a condenser.

2. Describe an experiment to show that the energy of a charged condenser is principally in the dielectric.

3. (*a*) What is meant by magnets of "unvarying strength?"

(*b*) How are such magnets made?

(*c*) To what uses are such magnets put?

4. Explain the fact that electric currents do not instantly rise to full strength on the application of a constant E.M.F., nor instantly fall to zero when the E.M.F. is removed.

5. What are "null" or "zero" methods of measurement? Give an example.

6. A disc of copper is spun on a horizontal axis, that is set north and south. A copper brush touches the rim of the disc and is connected, through a galvanometer, to a second brush that touches the disc near the axis;

(*a*) Explain why there is a current when the disc is spun.

(*b*) Which way does the current flow when the upper part of the disc is moving westwards?

(*c*) Why does the current depend on the angular velocity of the disc?

7. Three Daniell cells are connected in series to a water voltameter. Neglecting local action, what mass of zinc is dissolved per cell for each gram of hydrogen liberated? Atomic weight of zinc (divalent) is 64·9.

8. Ten Leclanché cells (1·4 volts each) are connected in series with a tangent galvanometer (2 ohms resistance) and an external resistance of 138 ohms. The deflection of the galvanometer is 45°. 110 ohms are added to the circuit and the deflection falls to 30°. What is the internal resistance of a single cell?

9. A motor takes 31·5 amperes at 134 volts and develops 4·7 brake horse power. What is its efficiency? (1 H.P.=746 watts).

10. Describe the construction and disposition of resistances in a resistance box of the "Post Office Pattern."

Physical Chemistry II.

FACULTY OF PRACTICAL SCIENCE (COURSES B, D, E.)

[No more than eight questions to be attempted.]

1. What would be the effect round the anode and hathode respectively in the case of migration of (*a*) the kaiton only; (*b*) the anion only; (*c*) both irons?

2. In what different units is molecular conductivity most commonly expressed? Work out the ratio between them.

3. Show how the absolute velocity of the ions may be calculated *or* determine the force required to give unit velocity.

4. What is meant by isohydric solutions? Illustrate.

5. Show how the amount of dissociation of water may be calculated.

6. Derive the equation $\frac{dP}{dT}T = P - \frac{W}{23{,}070}$.

7. Show that in Des Coudres' concentration cell, where electromotive force is due to different heights of the mercury columns forming the electrodes, the *EMF* is not affected by the temperature. In what direction does the current flow?

8. What is meant by solution pressure of metals? How does it apply to what is called "chemical action at a distance"?

9. Whet is a normal electrode? How may its potential be determined? How may it be used to find the potential of another electrode?

10. At what different points in the Daniell cell is there a development of *E.M.F.*? Which are the chief ones and what formula expresses the value of the *E.M.F.* at those points? Indicate the meaning of the formula.

11. Discuss the chemistry of the lead accumulator.

12. Discuss the production of an electric current directly from carbon. Why should a satisfactory method for obtaining electricity in this way be so desirable?

FACULTY OF PRACTICAL SCIENCE (COURSE E.)

Chemistry of Explosives and Cements.

1. Describe in detail the character and the preparation of any of the ingredients of gunpowder *or* give an account of the manufacture of gunpowder from its ingredients.

2. How can the pressure exerted by an explosive be calculated from the chemical reactions that take place during explosion? Illustrate by an example.

3. How is fulminate of mercury manufactured, and why is it so explosive?

4. What are the differences between natural and Portland cements, in composition, manufacture and properties?

5. What points are of particular importance in the manufacture of Portland cement?

6. What is considered to be the chemistry of the setting of cement?

The Uses of Explosives.

1. What is the difference between a "shattering compound" and a "disintegrating compound"? Give an example of each.

2. In what different ways may dynamite be exploded?

3. Is the percentage of nitro-glycerine that a compound contains an indication of its safeness for handling? Give reason for answer, and an example.

4. What precautions must be taken in handling charges primed with electric fuses in a wet tunnel where compressed air is used for ventilation and power?

5. What is understood by springing a hole? Where is it employed and what are the advantages obtained?

6. In tunneling how should the holes be charged and with what grade of powder, and give reasons?

7. How would you charge deep holes in hard rock with nitro-glycerine in hard freezing weather, and what precautions must be taken?

FACULTY OF ARTS AND PRACTICAL SCIENCE.

Elementary Mineralogy and Blowpipe Analysis.

Mineralogy I.

1. Sketch the crystals submitted, letter the faces in the sketches, name the forms present and give Naumann's symbols for each form.

2. Give with Naumann's symbols the several series of pyramids in the orthorhombic system.

3. Describe the following minerals: (*a*) quartz and its varieties, (*b*) orthoclase, (*c*) fluorite, (*d*) sphalerite, (*e*) barite, (*f*) apatite, (*g*) spinel, (*h*) galena, (*i*) specularite (*j*) talc.

Practical.

4. Determine the lettered specimens by field tests and the numbered specimens by the blowpipe.

FACULTY OF PRACTICAL SCIENCE.

Optical Mineralogy.

1. Explain the following terms: (*a*) dispersion of light, (*b*) dispersion of optic axes, (*c*) optic axial plane, (*d*) plane of vibration of nicol, (*e*) optic axial angle, (*f*) angle of extinction, (*g*) optically positive uniaxial crystal.

2. By means of the petrographical microscope, how would you distinguish between, (*a*) isotropic and isodiametric minerals?

3. Give the phenomena obtained from oriented sections of orthorhombic minerals in parallel polarized light and convergent polarized light respectively.

4. By a diagram show how a section must be cut through a monoclinic crystal (assume a case) so as to get the axial interference figure from the section. Name the parts of the diagram.

FACULTY OF PRACTICAL SCIENCE.

PASS.

Systematic Mineralogy.

1. Distinguish between minerals and rocks, using examples.

2. Using examples show what is meant by *irregularities of crystals.*

3. Give with examples six terms used in describing the imitative forms of massive minerals.

4. State with examples the different kinds of pseudomorphs.

5. How is the index of refraction of a mineral determined in an ordinary rock-section by the petrographical microscope?

6. Explain how *extinction* is obtained in the case of crystals in each of the six crystal systems, using the petrographical microscope.

FACULTY OF PRACTICAL SCIENCE.

Mineralogy.—Third Year.

Descriptive and Determinative.

[NOTE.—The same mineral must not be used in illustrating answers to different answers.]

1. Select three minerals, give details of *form* and *cleavage*, and show how these points are used to distinguish the minerals selected from others resembling them.

2. Give names and chemical compositions of minerals containing zinc. Describe two of them in detail.

3. Show definitely how the silicates are arranged into sub-classes.

4. Give the groups of the orthosilicates.

5. State definitely the *occurrence* for each of the following minerals: (*a*) titanite, (*b*) olivine, (*c*) tourmaline, (*d*) spinel, (*e*) corundum.

6. Give the optical properities used in describing, say a *monoclinic* silicate. State the terms used in expressing these properities. (Assume a case).

Practical.

7. Determine the lettered specimens by field tests and the numbered specimens by the blowpipe.

FACULTIES OF ARTS AND PRACTICAL SCIENCE.

Pass Geology and Geology I.

1. In what way have the relative ages of rocks been ascertained and the geological scale constructed?

2. How do rocks originate?

3. How may you recognize as old volcanoes those which have been extinct so long as to have lost, through erosion, the characteristic forms of volcanoes, such as the ones found in Ontario and Quebec?

4. Describe the formation of mineral veins.

5. Define strike, monocline, thrust, batholite, andesite-tuff, quartzite, gneiss, slate, unconformity.

6. Describe by word or diagram the following fossils giving the class and age to which each belonged: ambonychia radiata, lithrophycus, asaphus canadensis, stigmaria, pterodactyl, heliophyllum, pteraspis, ammonite, mesohyppus, hesperornis.

7. Discuss briefly mammalian life in Europe and America during glacial times.

8. Write notes on the following topics: (*a*) doctrine of colonies, (*b*) unconformities and catastrophism, (*c*) man in the glacial period.

9. What evidences have we of life in Pre-Cambrian times?

10. Give the subdivisions of the mollusca, with characteristics; and name two fossil representatives of each sub-class.

FACULTY OF PRACTICAL SCIENCE.

Mining I.

1. What appear to be the most active agents, and common conditions of ore deposition? Give a short account of the chemical and commercial side of secondary enrichments.

2. Write explanatory notes upon: Residual Deposits; Selvage or Gouge; Horse; Ore chute; Surface enrichment; Capping; Paystreak.

3. In prospecting for gold, iron, lead, copper, what evidences of them would you be likely to meet with?

4. Give a brief account of the tools and action of *one* of these forms of drilling (*a*) single jack or hand drilling; (*b*) power drilling; (*c*) diamond drilling; (*d*) percussive drilling.

5. Under what conditions are the following explosives used? also give their approx. composition; Nitro-glycerine: Gelignite; Dynamite; Safety Explosives; Fulminate of Mercury, and Gunpowder.

6. How would you proceed to prospect and develope a high grade narrow ore body which dips at a high angle into a hillside?

7. How would you stope and handle the ore in *one* of the following cases? (*a*) A high grade narrow ore body pitching at 70° ground strong? (*b*) A low grade, large body of ore (choose your own ore and dimensions).

8. Describe carefully and illustrate long-wall coal mining and the conditions best suited for its use.

FACULTY OF PRACTICAL SCIENCE.

Mining II.

[Be brief. Answer any 8 questions.]

1. Where does placer gold concentrate; and from whence is it probably derived?

2. Point out the chief features of *one* of the following: (*a*) simple placer mining; (*b*) hydraulic placer mining; (*c*) gold dredging.

3. Illustrate and indicate the method of support you would use for: (*a*) Scaly roof; (*b*) weak ground in a tunnel; (*c*) a narrow stope.

4. Choose an example of a large stope and describe how you would support it during excavation.

5. Describe any *one* of the following: (*a*) track and tramming in a metal mine; (*b*) rope haulage in a mine; (*c*) locomotive haulage in a mine.

6. Compare the capacity, costs and advantages of aerial and gravity rail tramways on a mountain slope 3000 feet long.

7. Describe one form of hoisting from a depth of 1000 feet; choose your own dimensions, loads and speed, and calculate the H. P. needed approximately.

8. Write a short essay on mine drainage; or, describe carefully *one* method of getting water out of a mine.

9. Write a short account of the reasons and methods for ventilating a coal mine. How is the needed amount of air chosen and measured?

10. Give explanatory notes upon: Day wages, mining contracts, leasing, royalty, bonuses.

11. If commissioned to examine an undeveloped mineral property (choose a variety) in an outlying district, state the heads under which you would report.

FACULTY OF PRACTICAL SCIENCE.

Metallurgy I.

1. Define: fuel, calorific power, B.T.U., calorimeter, heat of formation of a chemical compound, exothermic reaction, calorific intensity, thermal equation.

2. Given the heat of formation of CH_4=22,250, CO_2=97,00, H_2O=58,000; atomic weight of C=12 and H=1; and that the molecular weight in kilogrammes of any gas under standard conditions will have a volume of 22·22 cubic meters. Determine the calorific power of one cubic meter of a gas containing 60% by volume of CH_4 and 40% of H_2.

3. How should we burn H to get a maximum temperature? Why is the theoretical maximum temperature not obtained? Describe any two good methods for the commercial determination of temperatures between 1000°C and 1600°C.

4. Discuss the value of the various natural fuels and show what the object is of treating some of them to produce artificial fuels.

5. What is water-gas and how is it produced? How does this gas compare with ordinary produce gas?

6. What are the requisite properties of a good refactory material? How does fire-clay answer these requirements? When may this material be replaced to advantage by some other refactory materials?

7. Describe the operation of producing copper from its sulphide ores.

8. What is pig-iron? How and why are the physical properties of this iron effected by (*a*) the condition of the carbon in the iron, (*b*) amount of silicon present, (*c*) amount of sulphur, (*d*) amount of phosphorus?

9. What is steel? Describe and explain the operations of hardening, annealing, and tempering. What is the condition of carbon in an annealed steel containing ·89% carbon?

FACULTY OF PRACTICAL SCIENCE.

Metallurgy II.

1. Describe briefly the methods and plants you would suggest for treating the following ores if found on the north shore of Lake Superior: (*a*) Silicious ore, in a deposit which will stand a production of 200 tons of ore per day, assaying ·4 ozs. gold of which only ·2 ozs. is free gold and the remainder not in a condition to be recovered by concentration. (*b*) A large deposit which will stand an output of 700 tons per day of ore assaying 2·0% in native copper. (*c*) Calcite deposit, capable of an output of 200 tons of ore per day, when the ore contains 12% of coarse galena.

2. When treating gold and silver ores by the cyanide process some difficulty has been experienced in treating the "slimes". What are these slimes and when are they produced? Describe briefly the various methods employed in treating them.

3. Mention the various methods employed for recovering silver from its ores, and show for what classes of ores these methods are particularly adapted Describe briefly the Boss continuous process of pan-amalgamation.

4. Why is it sometimes found necessary or advisable to roast copper ores before smelting in the blast-furnace? What is pyrite smelting and when is it applicable?

5. Describe the modern operation of roasting lead ores with lime and mention the advantages of this process.

6. What is pig-iron, steel, malleable, cast-iron? Give the chemical composition or peculiarities of pig-iron that

would be suitable for the following purposes: (*a*) making steel in the Bessemer converter; (*b*) making steel in a basic open-hearth; (*c*) making wrought iron in a puddling furnace; (*d*) melting in a foundry cupola for casting, (α) intricate ornamental designs that will not have to stand any strain; (β) heavy solid pillars to stand only compressive stress; (γ) small castings when brittleness is objectionable.

7. Given a mixture of ores of the following composition, Fe., 50%, SiO_2 & Al_2O_3 15%, MgO, CaO 5%, MnO 1%, S.%, P·5%. It is required to make a pig-iron of the following composition Fe. 93·0%, Si 2·0%, Mn ·6%, P ·9%, C 3·5%, S ·1%, with coke containing 10% of SiO_2 and Al_2O_3 and 1·5% S. When one ton of coke is required for each ton of pig produced. How much limestone containing 50% available CaO will be required for a charge of 10,000 lbs. of coke, when the slag should contain equal parts of acids and bases? Describe the operation of making this iron into steel in the open-hearth furnace.

FACULTY OF PRACTICAL SCIENCE.

Electro-Metallurgy.

1. Explain giving examples how the electric current may be used for recovering a metal from the ore: (*a*) By actually breaking up the chemical compound or mineral containing the metal. (*b*) Simply as a source of heat to assist in some chemical reaction. (*c*) For both the above purposes.

2. Discuss the advantages and disadvantages of high current density in the refining of copper from the point of view of the purity of the copper produced, capacity of the plant, power required and therefore cost of refining.

3. Given the heat of formation of $Al_2 O_3 = 392$ large cal. Determine the critical voltage of that compound when it is known that 96,540 coulombs of electricity will liberate one chemical equivalent weight in grammes. Aluminum has an atomic weight of 27 and valency of 3. One joule = ·00024 large cal. What would be the output per H.P. year assuming a 50% amparage efficiency and a 50% voltage efficiency? One pound = 454 grammes.

4. Describe the operation of producing sodium from Na OH by the Castner process.

5. What is carborundum and how is it produced?

6. Describe the Héroult electric process of producing pig-iron and steel.

FACULTY OF PRACTICAL SCIENCE.

Ore Dressing.

1. What machines would you suggest for doing the following classes of work and why would you recommend them? (*a*) Breaking run of mine from a large iron mine down to a 4-inch ring. (*b*) Crushing 15 tons of ore per day, in a single operation, from 3-inch lump down to 30 mesh. (*c*) For crushing the middles from a jig (8 mesh) down to 30 mesh. (*d*) For dry crushing of 10 mesh material to 150 mesh. (*e*) Dry crushing by a series of reductions in size from 2-inch down to 20 mesh.

2. Sketch a gravity stamp-battery naming the different parts and showing how the wearing parts may be readily replaced. What determines the maximum number of drops per minute? How is the size of the product regulated?

3. Describe the operation of sampling ore by hand and by machine. Sketch two forms of mechanical samplers.

4. What is the object in subjecting ore to hydraulic classification? How does this operation compare with screening? Describe the cone classifier of the Colorado Iron Works and tell how it is operated.

5. Describe the operation of a Hartz jig making hutch and tailings only. Why is it sometimes advantageous to have a plunger operated to give slow suction?

6. Describe the Hancock submerged-seive jig and show why it is better adapted to treat unsized material than the ordinary Hartz jig.

7. Describe the Frue Vanner and show how it concen-

trates the ore. Discuss the value of the various adjustments.

8. For what classes of ore are magnetic concentrators particularly adapted? Discuss briefly one machine that will treat each class.

FACULTY OF PRACTICAL SCIENCE.

Thermodynamics I.

[NOTE.—Read all the questions through carefully before beginning to write. Only six questions are required; questions answered in excess of six will not be counted. Due credit will be allowed for ability to arrange calculations systematically.]

1. (*a*) γ for air$=1.41$, and R$=53.18$ find the mechanical equivilant of one B.T.U. (*b*) If 38 B.T.U. are added to 6 pounds of air, find the internal and external work done, (*a*) if added at constant volume, (*b*) at constant pressure. (*c*) To 3 lbs. air at 60 degrees F. and atmospheric pressure, 15 B.T.U. are added at constant pressure, find increase in volume.

2. Find the work done, and drop in temperature if 5 lbs. of air at 135 pounds per square inch abs. and at a temperature of 3000 degrees F. is expanded to atmospheric pressure adiabatically. If isothermally? How many pounds of air would be required per brake horse-power per hour if the efficiency of the engine were 86%?

3. Find the dimensions of a two stage air compressor taking in 2000 cu. ft. free atmospheric air per minute at 60 degrees F. and compressing the air to 165 pounds per square inch abs. n$=1.23$, and the air is cooled to its original temperature in the intercooler. Assume the compressor to be double acting, making 120 r.p.m., the stroke of the engine to be twice the diameter of the second stage cylinder, and the clearances to be 4.5% of the cylinder displacement. Divide the work between the cylinders so as to require the least work of compression, and find the

work done, rise in temperature in compression, and horse power to do the work, assuming the efficiency of the compressor to be 80%.

4. An Allen dense air machine has a two stage compressor which compresses 1000 cubic feet of free air per minute from 60 degrees F. and atmospheric pressure to 135 pounds per square inch abs. the air being cooled to its original temperature after each compression. The air then passes to an expansive air engine mounted on the compressor shaft in which it is expanded adiabatically to atmospheric pressure. Find the number of pounds of water which it could freeze into ice from water at 32 degrees F. in twenty-four hours. Find the work done in compression if $n=1.3$, work done in the expansive engine, and the horse-power of the steam engine to drive the machine if the efficiency of the compressor is 80%, of the expansive engine 85% and of the steam engine 85%. Find the temperature at the end of the expansion in the air engine.

5. Show by diagrams why isothermal compression is more efficient when the air compressed is to be used to drive machinery at a considerable distance from the compressor plant. How can the efficiency of such a transmission be increased? Use diagrams to explain.

6. Explain what happens when steam is expanded without doing any external work. If steam expands from 165 pounds per square inch abs. to atmospheric pressure and becomes superheated 14 degrees F. what does it indicate?

7. When will steam condense when compressed adiabatically? When will it become superheated when compressed adiabatically? Explain both cases by use of a diagram.

8. Find the dimensions of the cylinders of a three stage expansion engine taking steam at 165 pounds per square inch abs., the back pressure being 4 pounds per square inch abs. $r=14$, the ratio of the low pressure to high pressure cylinders being 7 and intermediate to low pressure cylinder being one to 2.7. Assume $x=0.9$. The horse-power of the engine is to be 6000 (indicated) R.P.M. 120 stroke 4 feet. Find the M.E.P. in each of the cylinders and the M.E.P. referred to the low pressure cylinder, also the point of cut off in each cylinder. Assume diagram factor proper for the engine. If the cylinder condensation in the engine is 15% and the mechanical efficiency is 92% find probable steam consumption per horse-power per hour.

9. Find the velocity of the steam, bucket velocity and diameter of the bucket wheels of a 5000 K.W. Curtis turbine running at 500 R.P.M. Also the steam pressure which must be maintained in the first stage shell and area at the throat and mouth of the first stage nozzles, assuming complete expansion in the nozzles. The nozzles make an angle of 20° with the plane of rotation. The turbine to have four stages and two rows of buckets in each stage. The initial steam pressure is 165 pounds per square inch abs. and the finial pressure in the condensor is 1 pound per square inch abs. Assume the efficiency of the turbine to be 50%, the generator 90% and allow for 50% overload. (Rateau's approximate formula may be used.)

10. Why does the real engine fall below the Carnot engine in efficiency? Explain the interchanges of heat in the cylinder of a real engine. Explain the gain in efficiency when superheated steam is used.

FACULTY OF PRACTICAL SCIENCE.

Thermodynamics II.

[NOTE.—Candidates are required to answer five questions *only*. Questions 1, 2 and 3 must be included in the five.]

1. At 26° F. ammonia vapor exerts a pressure of 54·62 lbs. per sq. in., and at 30° it exerts a pressure of 59·41 lbs. If the volume of one lb. of liquid ammonia, at 28° is ·025 c. ft., and its latent heat is 538 B.T.U. calculate the volume of 1 lb. of vapor at this temperature.

2. A $12'' \times 15''$ noncondensing engine takes steam at 80 lbs., cuts off at $\frac{1}{3}$ stroke, compresses to the initial pressure, and runs at 200 R.P.M. Calculate (*a*) the I.H.P., using a suitable diagram factor, and (*b*) the steam used per I.H.P.-hour allowing 20% for cylinder condensation. The clearance is 10%.

3. An engine takes 73 lbs. of steam per minute at 100 lbs. pressure, dryness ·98, and indicates 300 H.P. with a vacuum of 27″. The temperature of the water entering the condenser, which is of the jet type, is 60°, and on leaving 105°. If the quantity of condensing water is 11,700 lbs. per minute, determine (*a*) the thermodynamic efficiency, (*b*) Willans' efficiency, and (*c*) make out a heat balance.

4. Draw the entropy-temperature diagram for the indicator card presented, which was taken from a $10'' \times 10''$ engine consuming ·045 lb. of steam per stroke. Determine (approximately) the percentage of the energy lost due to condensation. The clearance is 8% of the piston displacement.

5. Develop formulas for determining the volumes of the cylinders of a triple expansion engine in terms of H.P., initial pressure, final pressure, drop at the end of expansion in each cylinder, and the speed. Assume the work to be equally divided between the cylinders.

6. Steam at 100 lbs. pressure and superheated 150° F. expands adiabatically in a nozzle to 25 lbs. pressure, and then passes through two sets of moveable turbine blades between which is arranged a set of stationary blades. It then expands in a second nozzle to an absolute pressure of 1 lb. and passes through three more sets of blades (two moveable and one stationary). If the inclination of the first nozzle to the direction of motion of the blades is 22°, and the blades in each set have equal lip angles, determine (*a*) the proper lip angle for each set of blades, (*b*) the proper inclination for the second nozzle, assuming each set of blades to have the same velocity, and (*c*) the steam consumed per H.P. per hour.

7. Calculate the diameters of the orifices for an injector to deliver 1500 gallons of water per hour at a temperature of 180°, the steam pressure being 80 lbs. and the temperature of the suction water being 100°. How much steam will such an injector use?

8. Determine the numerical value of the entropy for the four important points on the entropy-temperature diagram for an Otto gas engine which takes its working mixture at 60°, assuming the ratio of compression to be 3 and the temperature at the end of combustion to be 2000° F. Sketch the diagram from your results.

FACULTY OF PRACTICAL SCIENCE.

General Engineering I.

1. In a concrete of the proportion 1, 3 and 7, it was found that the voids in the stone were just filled by the mortar, and the voids in the sand were just filled by the cement. What was the proportion of voids in each?

2. In a massive brick structure, with $\frac{1}{4}$ in. joints and bricks $8\frac{1}{4}'' \times 4'' \times 2''$, what amount of mortar is required for a cu. yd. of the completed structure? If the mortar is mixed 1–3, how many barrels of cement each containing 3.2 cu. ft. are required to construct a wall 50 ft. long, 12 ft. high and $16\frac{3}{4}$ in. thick?

3. Describe briefly the process of manufacturing Bessemer steel.

4. Determine a suitable size for hard pine floor-joists under the following conditions: Span, 18 ft.; load, 300 lbs. per sq. ft. of floor surface; spacing of joists, 1.5 ft. center to center; allowable fibre stress, 600 lbs. per. sq. inch.

5. A cylindrical boiler shell 36 in. diameter, $\frac{3}{8}$ in. thick, has longitudinal lap-joints with single riveting. What should be the pitch and diameter of rivets, so that the efficiency of the joint may be the same in tension and in shear, allowing 12,000 lbs. per sq. in. tension and 9,000 lbs. per sq. in. shear? Find the safe internal pressure to which the boiler may be subjected.

6. Design a wooden cantilever beam of uniform strength, 10 ft. long and 4 in. wide, to bear a uniformly

distributed load of 400 lbs. per lin. ft., with an allowable fibre stress of 600 lbs. per sq in.

7. A girder of 36 ft. span bears loads of 16,000, 28,000, 28,000, 10,000, 10,000 lbs. at distances of 4, 12, 20, 26 and 32 ft. respectively from the left hand support. Find graphically the bending moment at a point 14 ft. from the left support, and also the reaction at each support.

8. Draw stress diagrams for the bridge truss (see diagram) (*a*) when the joints B, C, D, are loaded with 20,000 lbs. each.; (*b*) when B and C are loaded with 30,000 lbs. each and D is unloaded. (Bow's notation to be used.)

9. A rafter 36 ft. long and weighing 50 lbs. per ft. is inclined at 45° with the horizontal and rests against a smooth vertical wall at the top; it bears a load of 1,000 lbs. at a point 9 ft. from the top. Find the direction and amount of the thrust at the foot and the reaction at the top.

FACULTY OF PRACTICAL SCIENCE.

General Engineering II.

1. A continuous plate girder spans two openings, one of 32 ft., the other of 40 ft. The load is 2 tons per lin. ft. uniformly distributed over both spans. If the depth of the girder is 4 ft., the thickness of the web $\frac{3}{8}$ in., and the allowable safe flange stress 12,000 lbs. per sq. in, what should be the net area of each flange?

2. A bar of steel is subjected to tensile stresses which vary from 30,000 lbs. to 90,000 lbs. What should be its sectional area, allowing a factor of safety of 10?

3. The wooden stringers of a highway bridge are $3'' \times 16''$ in section and designed to span one opening of 16 ft. What would be a suitable size if each stringer is made continuous over two openings of 16 ft. each?

4. A concrete beam 4 in. wide, 6 in. deep, 5 ft. long, reinforced with 3 round iron rods of $\frac{1}{4}''$ diam., their centers placed $5''$ from the top of beam, failed under a load of 2,000 lbs. at the center. What was the probable tensile unit stress in the rods, and the compressive unit stress in the concrete?

5. Draw the reaction influence line for three wheel loads of 5,000, 10,000 and 15,000 lbs. spaced 6 ft. apart, passing over a girder 24 ft. long, and find the max. shear and max. bending moment at the center of the girder.

6. Why should the resultant pressure at the base of a retaining wall pass through the "Middle Third"?

7. The cross-section of a masonry dam 100 ft. high is

trapezoidal, width of top 10 ft., batter up stream 1 in 10, batter down stream 1 in 3, width of base $53\frac{1}{3}$ ft., weight of masonry 160 lbs. per cubic foot. Investigate graphically the stability of the dam, when reservoir is full and empty.

8. Show how an equilibrium polygon may be drawn to pass through any three points.

9. Find suitable dimensions for a hollow steel shaft to transmit 4000 H.P. at 125 revs. per min.

Railway Engineering I.

1. What effect has curvature upon the length of freight trains? Explain cause.

2. What is a virtual profile and how is one constructed?

3. Where is it necessary to equate or compensate for resistance due to curvature?

4. What headings should be used for columns in cross-section note book when cross-sectioning a long fill, which is to be made entirely from the side ditches? Assume ground and grade elevations and fill out the notes for cross-sectioning three stations.

5. Describe the use of "boning rods" in checking the grade in a cutting.

6. What are least dimensions permissable for a highway crossing under a railway?

7. What information can be obtained from the graphical representation of quantities of cuts and fills of a located railway line?

8. The railway may take lands of what dimensions without the consent of the owner.

9. Give the composition of a complete location party, and state the work performed by each member of the party.

10. Describe a method of calculating the grade elevations at station points upon a vertical curve between two adverse grades.

FACULTY OF PRACTICAL SCIENCE.

Railway Engineering II.

1. Give the various ways in which the maximum flow of water across a right of way may be affected.

2. Upon what does the area of water-way of a culvert depend?

3. What are the objections to the use of open culverts?

4. Sketch roughly a timber box culvert $3' \times 3'$ opening and name each of the parts.

5. Describe the different kinds of foundations used for frame trestles.

6. Describe three methods of protecting a railway embankment from wash or scour by high water.

7. Describe the method of taking out a clay cutting, which is short but deep, by the fall system.

8. Describe a public road crossing and a farm crossing that comply with the requirements of the law.

FACULTY OF PRACTICAL SCIENCE.

Railway Engineering III.

Maintenance of Structures.

1. Describe round and polygonal engine-houses and give the advantages and disadvantages of each class.

2. In designing a round-house, the panel length of the inside front being 15 feet, and the diameter of turntable 66 feet, gage of track 4′, $8\frac{1}{2}''$, and frogs placed in approach tracks, with the distance from gage side to gage side of rail at heel of frogs at turntable circle being 8 inches, what will be the radius of circle for laying out the inner front of round-house?

3. In designing a depressed ash or cinder pit, what special points have to be considered? Give the reasons why they are considered in each case.

4. What are the six methods used in coaling engines? Describe one of the methods.

5. Describe side and island stations and state the advantages and disadvantages of each class.

6. Describe the points to be considered in designing an ice storage house, and give the reasons for their consideration.

7. Enumerate the various kinds of station platforms in use. Of what material are they constructed?

8. Where would you look for rot and decay in timber in a brick and a stone building, in a frame building and in a frame trestle?

9. Describe briefly, "oil storage houses," "oil supply houses," and "oil mixing houses."

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Railway Engineering III.

Maintenance Track.

1. Describe the organization of the Maintenance of Way Department when conducted under the "Department System."

2. Describe how track should be spiked, under all the various conditions met with in good track in a Northern climate, and give reasons for doing the work in the manner described, in each particular case.

3. Describe two methods of tie renewal. What defects warrant the renewal of ties?

4. Sketch a split switch and name all the parts.

5. In putting in a cross-over between two parallel tracks which are 14 feet centers, and using one in ten frogs, how far apart will the frogs be placed, measured along one track?

6. What is a "twin switch"? When is it used and why is it used?

7. Describe a "slip switch." Where is it used?

8. Give some of the causes for track creeping, and state what precautions are taken to prevent it as far as possible.

9. Describe the work done by a section gang, classed under the term of "Fall or Autumn Work."

FACULTY OF PRACTICAL SCIENCE.

Municipal Engineering.

FIRST PAPER.

Street Railway and Water Works.

1. State which is the better class of rail to use with the different class of pavements, the girder rail, the tee rail, or the flat tram rail: 1st, from the street railway's point of view; 2nd, from the municipality's point of view; 3rd, from the vehicular traffic point of view.

2. What are the several factors that enter into the problem of overhanging and car clearance?

3. With 4 ft., $8\frac{1}{2}$ in., gage on tangents, and wheels pressed on to axles to gage $\frac{1}{4}$ in. less than track, what should be the gage of track on a thirty-five foot radius curve?

4. With a curve of 100 foot radius or less, is it advisable to place a guard rail on the outer or long side of the curve? Give reasons for your answer.

5. Give at least five tests to be applied to determine whether a water supply is to be classed as polluted or not.

6. What conditions have to be taken into consideration in designing a domestic and fire water supply that do not occur in the domestic system?

7. Describe the difference between continuous, intermittent and mechanical filtration.

8. Describe the construction of a continuous filter.

FACULTY OF PRACTICAL SCIENCE.

Municipal Engineering.

SECOND PAPER.

Streets and Sewers.

1. What are the different forms of gutters used on a paved roadway, and what regulates the height of curb?

2. In the selection of a pavement what is meant by the terms adaptability, serviceability, durability and economy?

3. Describe the construction of a macadam roadway 24 feet wide, on a hard clay subsoil having a grade of 8%.

4. What are the requisites of a good paving brick?

5. Describe the method of laying a stone block pavement from the time the sub-grade is prepared until opened for traffic.

6. What is the hydraulic mean radius of a 15-inch sewer flowing one half full?

7. If the velocity of flow in a 15-inch sewer running one half full is 1·5 feet per second, what will be the velocity (approximately) in the same sewer running one quarter full?

8. Describe by means of a sketch the best means of ventilating a sewer and house connections. Name the parts and state why so placed.

9. State what precautions must be taken in laying a 12″ sewer, and describe the method of laying it to the required grade by means of the grade rod.

10. Describe the action that takes place in the septic tank and contact filter upon the purification of sewage.

Electrical Engineering I.

1. One magnetic circuit of an electric generator is made up as follows: 10″ of cast iron, section 55 sq. in.; 30″ wrought iron, section 30 sq. in.; 1″ wrought iron, section 18 sq. in.; 3/8 air, section 30 sq. in. Calculate the number of ampere-turns required to produce a flux of 2×10^6.

2. The trolley wire of an electric railway line is 20′ above the ground and carries a current of 100 amperes. This current returns to the generator through the two rails which are 56″ apart. What is the strength of the magnetic field 5′ from the ground directly under the wire?

3. A coil of wire, composed of 10 turns, is wound in the form of a rectangle $15'' \times 10''$, and placed between the poles of an electromagnet which have the same dimensions as the coil. The strength of the magnetic field is 10,000 (per sq. cm.). Determine the maximum twisting moment which the field can exert on this coil when a current of 10 amperes is flowing in it.

4. An alternating E. M. F. has an effective value of 1000 volts and a frequency of 60. What is (*a*) its mean value, (*b*) its maximum value? If this E. M. F. is applied to a circuit of which the resistance is 10 ohms and the inductance ·02 henry, determine (*a*) the components of the E. M. F. in phase with and at right angles to the current, (*b*) the power delivered to the circuit.

5. A 10-H. P., 220-volt, D. C. motor takes 4 amperes through its armature at no load, and 2 amperes through its magnet winding. The resistance of the armature is

·25 ohm. Calculate the total loss in watts at full load, and the efficiency.

6. The efficiency of a 220-volt, 60-cycle, 15 H. P., 2-phase induction motor is 85%, its power factor is ·88, and the slip is 5%. How much current per phase will it take from the line? If it has six poles, at what speed will it run (*a*) at no load, (*b*) at full load?

7. Power is supplied to the motor of the previous question by two branch circuits (one for each phase) 60′ long. Determine the size of the wires required, allowing a drop of 2% in the voltage.

8. A factory is to be equipped with a 3-wire, 220-volt, D. C. electric light and power system. The aggregate power of the motors required is 200 H. P., with an average efficiency of 82%. The lighting requirements are 400 16-c. p. incandescent lamps and 40 enclosed arc lamps. Determine the capacity of the generator required, allowing a loss of 8% in transmission.

9. A transformer is designed to convert 2200 volts to 220, frequency 60, with a maximum flux density in the magnetic circuit of 5000 lines per sq. cm. If there are 480 turns on the high tension coil, determine (*a*) the sectional area of the magnetic circuit, (*b*) the number of turns on the low tension coil.

10. Power is transmitted a distance of *a* feet at 200 volts, with a loss of 10% in the line. If the voltage is increased to 2000 what will the loss be? If the loss and the size of the wire remain the same, over what distance could the same amount of power be transmitted at the higher voltage?

Electrical Engineering II.

1. Calculate the resistance of 1000′ of $\frac{1}{4}''$ square copper wire at 100° C.

2. A bar of round iron, 3″ in diameter and 20″ long is bent into the form of a U, the ends of which are tapered at 45° to a dia. of 2″. Determine its lifting power when there are 2500 ampere-turns acting on it. Assume the reluctance between each pole and the weight lifted to be equivalent to an air gap of ·05 cm., and the reluctance of the weight to be nil. $\mu = 500$.

3. Two coils, one with 60 turns and the other with 600 are wound on an iron core and an alternating current of 2 amperes, frequency 60, is passed through the first one. If the E. M. F. induced in the second coil is 200 volts, calculate the mutual inductance of the coils, and also the inductance of each coil, assuming the magnetic permeability to remain constant.

4. An E. M. F. of 1000 volts acts on a circuit of which the admittance is $\cdot 05 - \cdot 02j$. Determine (*a*) the current, (*b*) the power taken by the circuit, (*c*) the angle between the current and the E. M. F., and (*d*) the resistance and the reactance of the circuit.

5. A 220-volt 30-cycle circuit supplies current to non-inductive apparatus the combined resistance of which is 4 ohms, and to inductive apparatus the resistance of which is 5 ohms and inductance ·005 henry. Determine the power factor for this circuit and the line loss if the line resistance is ·15 ohm.

6. A circuit with a resistance of 4 ohms and an inductance of ·01 henry is shunted with a condenser of 100 microfarads capacity and connected to 200-volt, 40-cycle mains. Calculate (*a*) the current in the circuit (*b*) the

current taken by the condenser and (*c*) the current and power taken from the mains.

7. The sectional area of the magnetic circuit in a 25 K.W. transformer is 150 sq. cms. and the length 50 cms. There are 480 turns on the high tension coil and the transformation is from 2200 to 220 at no load, frequency 60. $R_1 = 1{\cdot}25$ ohms; $R_2 = {\cdot}02$ ohm. Determine (*a*) the number of turns on the low tension coil, (*b*) the maximum flux density, (*c*) the iron losses, (*d*) the copper loss, (*e*) the efficiency and (*f*) the secondary E. M. F. when delivering full load to a noninductive circuit. $\mu = 2000$.

8. How would the hysteresis loss in a 2000-volt 30-cycle transformer be affected if operated (*a*) on a 2000-volt, 60-cycle circuit, (*b*) on a 2200-volt 30-cycle circuit? State increase or decrease in terms of normal loss.

9. The primary coils of two transformers have each 600 turns and they are connected to 3000-volt 2-phase mains. Calculate the number of turns required on each of the two secondary coils to get an E. M. F. of 2000 volts, 60° in advance of the E. M. F. in phase A when the two coils are connected in series.

10. A magnetising coil of 100 turns is wound on an iron ring of 15 cms. mean diameter and 3 sq. cms. sectional area. A search coil is also wound on the ring and connected to a ballistic galvanometer. When a current of 1 ampere is reversed in the magnetising coil the deflection of the galvanometer is 14. The galvanometer is then connected to a second coil of 200 turns wound over the centre of a solenoid which has ten turns per cm. of length and a diameter of 3 cms., and when a current of 5 amperes is reversed in the solenoid the deflection of the galvanometer is 8. Determine (*a*) the flux density in the iron ring when the current of two amperes was passing, and (*b*) the permeability.

FACULTY OF PRACTICAL SCIENCE.

Electrical Engineering IV.

1. The brushes of a machine when at rest are rocked a distance equal to the pole pitch. How will it act when started, (*a*) if it is a generator, and (*b*) if it is a motor?

2. From the given magnetic characteristic of a 11-K.W., D.C. generator determine the number of series turns required to give a voltage regulation of 110 to 116 volts. The resistance of the armature is ·06 ohms, and the resistance of the series winding may be taken at ·02 ohms. Neglect armature reaction.

3. Taking the magnetic characteristic of question 2 as applying to a 5-H.P. series motor when separately excited and run at 1200 R.P.M., determine its speed at (*a*) full load, (*b*) three-quarter load, and (*c*) one-half load. There are 110 turns per pole; the resistance of the armature is ·25 ohm and of the field coils ·8 ohm.

4. The losses in a 100-K.W. 220 to 240-volt D.C. generator are determined by driving it with no load by means of a 110-volt shunt motor. The motor alone with no load takes 6 amperes through its armature; when driving the generator not excited it takes 9 amperes and when driving the generator excited 30 amperes. The no load exciting current of the generator is 7 amperes, the armature resistance ·014 ohm, and the series resistance ·004 ohm. Calculate (*a*) the full load efficiency when run as a generator, and (*b*) the maximum output and efficiency when run as a shunt motor.

5. Power to the amount of 300-H.P. is to be delivered

at 500 volts over a line three-quarters of a mile long. The cost of copper is 30 cents per lb., cost of power 1·5 cents per K.W.-hour. If there are 3500 working hours in the year and the rate of interest is 5%, determine the size of wire which will make the value of the line loss equal to four times the interest on the total cost of copper.

6. The speed of a 5-H.P., 220-volt shunt motor is controlled by a resistance placed in series with the armature. If the armature efficiency is 85% what resistance would be required to reduce the speed to one-half with full load torque? If this resistance is left in circuit and the torque decreases to 75% of full load, what will the speed be? Sketch the curve of armature efficiency on a base of speed.

7. Two compound generators are connected to work in parallel, and it is found that as the load increases one takes more than its proper proportion of the increase. How would you remedy this?

8. Given a single D.C. machine, the necessary instruments, and a suitable source of power, how would you determine the various losses and the efficiency? Illustrate with approximate values for a 220-volt, 100-ampere machine.

Electrical Engineering V.

[NOTE.—Candidates are required to answer six questions only. Questions 1, 3, and 5 must be included in the six.]

1. In a 20 K.W. transformer the ratio of transformation is 20 to 1. $R_1 = 2$ ohms; $R_2 = \cdot 008$ ohms; $1° = \cdot 5$ ampere; iron loss is 600 watts, total leakage reactance referred to the primary coil is 6 ohms. Determine (*a*) the full load primary voltage and current, (*b*) the secondary voltage, and (*c*) the efficiency, when delivering 200 amperes to a circuit whose resistance is ·4 ohm and reactance ·3 ohm.

2. A 10 K.W. transformer, designed to convert 2200 volts to 110, is connected up as an autotransformer to convert 2200 volts to 2310. Determine (*a*) its rating when used in this way, and (*b*) the current in each coil.

3. Two wattmeters W_1 and W_3 are connected in mains 1 and 3 of a 400-volt, 3-phase, star-connected induction motor. At no load W_1 reads 0 and W_3 reads ·9 K.W. At full load W_1 reads 15·9 K.W. and W_3 reads 26·9 K.W. The current in each main is 67·8 amperes and the resistance of each phase is ·162 ohm. If the slip at full load is 5·5%, determine (*a*) the mechanical output at full load, (*b*) the power factor, and (*c*) the efficiency.

4. A 2200-volt, 3-phase, $\triangle$-connected generator supplies 100 K.W. to 3 $\triangle$-connected transformers. If one of these transformers is cut out, express numerically the current changes which will take place in the other transformers, line, and generator.

5. A 2-phase mesh-connected generator has 12 poles, 181 slots, 12 conductors per slot and runs at 300 R.P.M.

The flux per pole is 24×10^5. The form factor for one conductor is 1.12. Calculate the E.M.F. per phase.

6. A 3-phase rotary converter gives 550 volts between brushes at no load. When driven at no load and normal speed by direct current it takes 6 amperes through the armature and 9 amperes through the shunt winding. When delivering 360 amperes (full load) direct current the voltage between brushes is 540 and between the terminals of the series winding 5. Determine (*a*) the A.C. voltage, and (*b*) the efficiency. What would the capacity of this machine be if operated as a D.C. generator?

7. 10,000 H.P. is to be delivered over a distance of 20 miles at 20,000 volts, frequency 25, on the 3-phase system. The power factor of the receiving line is to be ·8. The energy loss in the line must not exceed 12%. Determine (*a*) the voltage of the generator and (*b*) the size of the wires, assuming they are placed on the corners of a triangle, 30″ apart.

8. To what value must the voltage of an alternator be adjusted to give maximum efficiency in the transmission of power to a 75-K.W., 1000-volt, synchronous motor, if the resistance of the whole circuit is 1 ohm and the reactance ·58 ohm? What would the value of the current be in this case?

Electrical Engineering VI.

[NOTE.—Answer questions 1, 2, 3, and either 4 or 5.]

1. The section of a magnet pole is $9'' \times 9''$. A coil $10''$ long is to be wound on this pole to give 4,000 ampere-turns with an E.M.F. of 10 volts on its terminals. Determine (*a*) the size of the wire, (*b*) the number of turns, and (*c*) the weight of single cotton covered wire required.

2. The diameter of the armature of a certain machine is $120''$, the width of the armature face is $19{\cdot}5''$, and the speed is 80 R.P.M. Calculate its capacity approximately.

3. Determine the following quantities for a 100-K.W. 25-cycle transformer to convert 11,000 volts to 2,200 with an efficiency of 97·8%: (*a*) volume of iron, making the thickness of the laminations 14 mils, (*b*) section of the magnetic circuit, and (*c*) the number of turns on the coils. If two of these transformers are to be used to change from 2-phase to 3-phase on the Scott system, what additions would you make?

4. A potentiometer is required to vary the current in a 5-ohm circuit from ·4 ampere to 10 amperes, the source of power being 110 volts. It is to be made up of three sizes of wire with capacities of 20, 10 and 3 amperes. Determine the resistance which must be made up of each size of wire. The leakage current must not exceed ·7 ampere.

5. Calculate the following for an 8-pole, 400-K.W. railway generator to give 525 volts at no load and 575 volts at full load, the speed being 125 R.P.M.: (*a*) diameter of armature, (*b*) width of armature, (*c*) section of poles, (*d*) number of slots, (*e*) number and size of conductors.

FACULTY OF PRACTICAL SCIENCE.

Hydraulic Engineering I.

1. A masonry dam has these conditions: Front and back slopes at 60° to the horizontal; top width 4 feet; water level 4 feet below the top; base 18 feet below water level. Find the normal, horizontal, and vertical pressures on this dam; also the factor of safety against overturning.

2. How many miner's inches flow through a rectangular orifice 6 inches deep by 6 feet wide under a head of 16 feet. Calculate the dimensions of a contracted weir to carry as much water when the approaching stream is 2′ deep by 10′ broad after the weir is in.

3. A tank receives 1 cubic foot of water per second and discharges through a standard short tube of ·1 square foot area. Find the permanent head inside the tank. If this discharge takes place into a vessel where the pressure per square inch is 1 pound above atmospheric pressure, find the permanent head inside the tank.

4. A pipe line 1000 feet long, 1 foot diam., slopes on a 10% grade. There are two turns of 90° where R=10 feet, and the pipe terminates in a nozzle of ·1 foot diameter. Assuming there is a head of 10 feet at the entry, calculate the various losses of head between the inlet and outlet of the water; also draw approximately the hydraulic gradient.

5. A rectangular flume carries a stream of water 1 foot deep, 3 feet broad, at a velocity of 2 feet per second. It is desired to carry this water across a valley by a pipe 1000 feet long. Find the diameter of the pipe which

will do this when the difference of elevation of the inlet and outlet is 10 feet.

6. The drainage basin is 200000 acres; the average monthly rainfall is 3 inches; only half of this finds its way to a stream. Find the length and best dimensions of a trapezoidal ditch to carry all of this water through gravelly earth to a point 500 feet lower elevation than the intake of the water.

7. From a point A a pipe line 1 foot diam. slopes for 100 feet with a drop of 10 feet to a point B, where the diameter changes gradually to ·5 feet. Pressure head at A is 10 feet and velocity is 4 feet per second. Find the pressure head just beyond B, taking into account the loss of head due to friction between A and B.

8. A turbine of 80% efficiency produces 300 H.P. under a fall of 20 feet. How many cubic feet of water per second does it need to do this? Compare it with the head and water used on a Pelton wheel of the same power and efficiency when the area of the nozzle used is ·1 square foot. (Neglect transmission losses.)

FACULTY OF PRACTICAL SCIENCE.

Hydraulic Engineering III.

1. If a dam is placed in a river, describe how the swell at the hydrostatic limit of flowage is calculated.

2. Enumerate the ways in which a dam may fail, and name and describe the portions of the work constructed to guard against such action.

3. Why is it objectionable to have a perpendicular down stream face to a dam that passes water over its crest at flood stages of the stream?

4. What becomes of the enormous amount of energy developed by water falling over a dam? How is the dam often constructed to take care of this?

5. If the pond area above a dam is 400 acres, and the maximum flood water coming into reservoir 16761 cubic feet per second, and the capacity of spill-way at the 4-foot level being 16761 cubic feet per second, how long will it take pond to fill up to the 3-foot level? the flow over the spill-way being taken as follows:

0·5	foot	level	740·8	cub.	ft	per second.
1·0	"	"	2095·2	"	"	" "
1·5	"	"	3849·0	"	"	" "
2·0	"	"	5926·0	"	"	" "
2·5	"	"	8281·8	"	"	" "
3·0	"	"	10886·6	"	"	" "
3·5	"	"	13718·8	"	"	" "
4·0	"	"	16761·0	"	"	" "

6. In a long canal for conveying water for power

purposes, what provisions must be made for what contingencies?

7. What is the most equitable way of selling water power?

8. With long penstock and considerable head, what devices are necessary and why? and with varying head at the wheel, what attachment is required and what does it necessitate?

9. Describe a hydraulic air compressor or trone.

FACULTY OF PRACTICAL SCIENCE.

Hydraulics IV.

1. What are the main parts of a perennial canal system?

2. If 2 acre-feet per acre is the duty, how much (approximately) must be stored in the reservoir and what becomes of the difference?

3. What are the most economical channel cross-sections, with vertical sides, and with trapezoidal form?

4. What do the headworks of an irrigation canal usually consist of?

5. Where should regulators be placed, and why so placed, and what duty have they to perform?

6. What are the escapes of waterways, where are they placed and what services do they perform?

7. Give the different methods of applying the water to the land, and describe each in turn.

8. With pumping or lift irrigation describe the various methods used for lifting or raising the water.

FACULTY OF PRACTICAL SCIENCE.

Structural Engineering I.

1. In quarrying, describe what are known as "beds", "end joints", and "back joints".

2. Describe the following tools and state what particular work they are used for: face hammer, cavil, pean hammer, bush hammer, crandall and tooth axe.

3. Describe coursed and uncoursed or random rubble masonry, also cut stone masonry known as range work and random work.

4. What is a flushed joint? and why is it objectionable?

5. Give a method of finding the voids in a given sample of broken stone. Also give two methods of finding the voids in a given sand.

6. How much broken stone, sand, cement, and water will be required to make 100 cubic yards of concrete? the voids in the stone being 40%, and in the sand 33%. Cement 10% in excess of the voids in the sand and water 70% of volume of cement. A barrel of cement contains 3·2 cubic feet.

7. Describe wet and dry rot in timber. What are they caused by?

8. Define the following parts of a building: pitch, plate, rafter, hip, purlin, girts.

9. Describe how you would proceed to repaint a steel bridge which was badly rusted in places, and upon which the paint was dead.

FACULTY OF PRACTICAL SCIENCE.

Structural Engineering II.

1. The location of a bridge site having been decided upon and the grade of the road bed fixed, give a full description of the information that must be placed on the profile, to enable the designer to figure out the most economic design.

2. Describe the different conditions that must be satisfied in designing a stable bridge pier.

3. Describe a pneumatic caisson and the methods employed for removal of material from beneath it.

4. What class of cut water is advisable on pier in swift water in a northern climate, and state why the section is chosen.

5. A sheet-pile coffer-dam with clay puddle core having been constructed on a gravel bottom and found to leak too badly through the gravel bottom, describe two methods of making the coffer-dam so that it can be unwatered.

6. The located centre line of a bridge being at an angle of 45 degrees with the centre line of the river, substructure to consist of two abutments and two piers, the three spans of equal length. Describe checking the distance in the centre line on the ice. Also describe measuring the base line; what hubs and sights would be necessary, supposing one pier was to be built in a sheet-pile coffer-dam and the other pier in a pneumatic caisson.

FACULTY OF PRACTICAL SCIENCE.

Mechanical Engineering I.

1. The dimensions of the four-cylinder three-stage engines of the U.S. destroyers Bainbridge, Barry and Chauncey are as follows: Pressure in steam pipe, 175 lbs.; First receiver, 75 lbs.; Second receiver, 15 lbs.; Vacuum, 25″ (12.5 lbs.); R.P.M., 300; Diameter of high pressure cylinder, 20.5″; Intermediate cylinder, 32″; Low pressure, (2) 38″; Stroke, 22″. The piston valves are 12″ and 13″ diameter. Find thickness of cylinder heads and covers (single and of cast-steel). Diameter of piston rods and diameter at bottom of thread, thickness of pistons near boss and near edge (forged steel). Diameter of connecting rods at crank and gudgeon ends, also other proportions of gudgeon end (gudgeon fitted in rod). Find thickness of connecting rod and gudgeon brasses and diameter of connecting rod bolts at bottom of thread and the projected area of the crank pin. Find the diameter of the valve stems, area of the cross-head guides and diameter of crank shaft. All parts, such as valve stems, connecting rods and piston rods, etc., are made of oil-tempered nickel steel.

2. Why are cylinder liners fitted to cylinders? Show by a sketch how they are fitted. Why is cast-iron best for cylinders and cross-head guides? What specifications would you give in ordering cast-iron for cylinder casings? For cylinder liners or cross-head guides? What are the difficulties in casting a large hollow cylinder or cylinder cover, or castings in general, and how can the difficulties be avoided? What conditions determine the safe work-

ing stress to assume for cast-iron and steel as employed in machines? Give some examples.

3. Show how the formula for the diameter of the columns supporting a vertical engine was obtained. Formula—$D = Kd\sqrt{N/n}$, in which K is a constant determined from actual practice, d is diameter of the connecting rods at the crank end, N is the number of cylinders and n is the number of columns supporting the cylinders. The diameter of the connecting rods of a certain four-cylinder three-stage expansion engine was 4.625″ diameter at the crank end, and each of the twelve columns was 3.125″ diameter. Find the value of K from this data.

4. Find the thickness of the plate required and proportions of the riveting for the shell of a Scotch boiler 16′ –8″ diameter, the longitudinal joints to be treble riveted, double butt straps with alternate rivets omitted in the outer row, the circumferential joints to be double riveted lap joints, the test pressure to be 225 lbs. and plates to be of 28 ton Open Hearth steel. Use Trail's rules, to be calculated and not taken from tables.

FACULTY OF PRACTICAL SCIENCE.

Mechanical Engineering II.

NOTE.—Read all the questions over carefully before beginning to write. Eight questions only need be answered; questions answered in excess of eight will not be counted. Due consideration will be given for ability to arrange mathematical work systematically. Slide rule calculations are sufficiently accurate.

1. It was found that the revolving portion of a 5000 K.W. Curtis turbine when running at 500 R.P.M. will make 67320 revolutions after power has been shut off before coming to rest. The rotor may be considered as a disc of uniform thickness 15 feet in diameter and weighing 20000 pounds. The shaft is vertical and turns on an annular step bearing, the inner diameter of which is 8″ and the outer diameter 13″. Assuming the coefficient is constant at different speeds and neglecting the windage and friction of the other bearings, calculate the coefficient of friction of the step bearing.

2. The fly-wheel of a one cylinder single acting gas engine of 100 B.H.P. is a solid disc of uniform thickness 8′ diameter, if the engine gives but one impulse in two revolutions, find the thickness of the fly-wheel so that the greatest momentary change of speed will be 1/500 of a revolution per minute. The engine makes 300 R.P.M. Assume iron to weigh 490 per cubic foot.

3. The motive power of the Howell torpedo consists of a solid steel cylinder 13″ in diameter and 14″ long which is set spinning at 12000 R.P.M. and drives the torpedo 1000 yards at the rate of 30 miles per hour. If all the energy stored in the cylinder is exhausted at the

end of the run, find the average horse-power required to drive the torpedo.

4. The paddle wheels of a steamer are 35′ in diameter and each weighs 100 tons and revolve 24 times per minute. If the ship is in a sea way and rolls through an angle of 15 degrees and the period of the waves is 26 seconds, calculate the moment tending to keep the ship from rolling. The shafts are 30″ in diameter in the wheels, find the stress in them due to the above moment. The wheels may be considered as solid discs of steel of the weight given.

5. If the propeller of a ship is equivalent to a disc of steel 14′ in diameter and 3″ thick, and runs at 180 R.P.M., find the least diameter of shaft for smooth running if the overhung unsupported length of the tail shaft is 4′.

6. The blades of a 14′ propeller are elliptical, being 6′ long by 2.5′ wide and 1.625″ thick. They are attached to the boss by eight steel bolts, if the propeller makes 180 R.P.M., and the allowable stress on the bolts is 3000 pounds per square inch, find the diameter of the bolts.

.7 The distance between the bearings of a 5000 K.W. Curtis turbine is 8′, and the shaft carries four wheels each 13.5′ in diameter by 3.5″ thick spaced equally on the shaft between bearings. The shaft is 10″ in diameter, find the critical velocity of the turbine neglecting the weight of the shaft.

8. The disc of a turbine making 9000 R.P.M. weighs 45 pounds and its centre of mass is 0.055″ from the geometrical centre, and the shaft which is 32″ long between bearings is 0.625″ in diameter, calculate the stress transmitted to the bearings. The bearings have spherical

seats and the wheel is mounted midway between the bearings.

9. Find the force required to drive in a wedge whose angle is 12 degrees, the weight to be lifted being 8700 pounds, and the coefficient of friction is 0.14. Find force required to withdraw the edge.

10. Find the diameter of the impellers of a 6-stage centrifugal running at 600 R.P.M. and raising water 600 feet. The blades of the impellers make an angle of 30 degrees with the tangent to the circumference, and 60% of the kinetic energy of the water as it leaves the wheel is converted into potential energy.

FACULTY OF PRACTICAL SCIENCE.

Mechanical Engineering IV.

[NOTE.—Before beginning to write, read all the questions through carefully. Six questions only are required; questions in excess of six will not be considered. Ability to arrange mathematical calculations systematically will receive due consideration.]

1. Give a complete list of all the apparatus required in a plant located where good boiler feed-water is scarce and where the water for condensing is limited, stating in full what each part is for, and make sketches of some one type of each.

2. What precautions must be taken to operate a plant economically and why? What should a man do on taking charge of a plant as manager or chief engineer?

3. How would you fire bituminous coal? How anthracite? What are the conditions for best economy in burning bituminous coal?

4. Of all the types of boiler with which you are acquainted, which do you consider the best suited for use where the available feed-water contains a large amount of scale forming salts? Give all your reasons for your selection in full and illustrate by diagrams if necessary.

5. A vertical boiler of the Cahall type has 84 tubes 4″ diameter and 19′ long, an upper drum 6′ diameter by 7′ high, the water level being 3′ above the tube sheet. There is also a flue 3′ diameter through the upper drum, and the lower drum is 6′ diameter by 4′ deep. The grate surface is 50 square feet. Find the nominal or commercial horse-power of the boiler, and also the horse-

power which it might be expected to develop if 50 pounds of New River coal are burned per square foot of grate surface per hour.

6. If the cost of a return tubular boiler is $1.45 per square foot of heating surface, including the setting, and one ton (2000 lbs.) of New River coal can be delivered on the boiler room floor for $4.00, find the most economical heating surface for a boiler of 400 horse-power, assuming the plant to be equipped with natural draft, and that 20 pounds of coal will be consumed per square foot of grate surface per hour. Assume that the interest and depreciation will amount to 14% per annum.

7. What are the principal points to be remembered in designing a piping lay-out for a large plant? Sketch a piping system for a plant containing eight boilers and four engines, showing the location of all the valves required, and state your reasons in full for the lay-out given. What are the advantages and disadvantages of using angle valves wherever possible? What suggestion would you make if you did use them?

8. In a ten-hour test, the coal burned was found to be 8763 pounds, the ashes removed 964 pounds, the water weighed into the boiler 64,342 pounds, the steam from the boiler was tested for dryness by a throttling calorimeter which showed an average of 12·64 degrees F. superheat. The average temperature of the feed water was 187·5 degrees F. and the average steam pressure by gauge was 145·7 lbs. The coal contained 3·5% moisture, and a calorimeter test showed a heat value of 14,376 B.T.U. per pound of dry coal. Find the equivalent evaporation per pound of combustible per hour, also the efficiency including the grate. What was the horse-power of the boiler by the A.S.M.E. rating?

9. Find all the dimensions of a chimney for a plant of

3500 H.P. burning bituminous slack on Rooney stokers, the ratio of grate to heating surface being one to fifty, allowing for 50% overload, the breeching being 87′ long, of circular section, there being three easy right angle bends. The temperature of the flue gases when running on overload may be taken as 650 degrees F.; the plant is located at sea level, and the breeching and chimney are to be brick-lined.

10. How many cubic feet of free air per minute would have to be supplied to the above boilers if the chimney were replaced by a fan? Assume the temperature of the atmosphere to be 60 degrees F. If the fan engine makes 358 R.P.M., what would be the size of fan required to do the work, and about how many horse-power would the engine have to develop to drive the fan?

FACULTY OF PRACTICAL SCIENCE.

Mechanical Engineering V.

1. In a 3-cylinder, single-acting gas engine, working on the Otto cycle, the ratio of the pressure after explosion to the pressure before explosion is 4·2 and the ratio of compression is 3·5. The cylinders are $8'' \times 10''$ and the speed is 250 R.P.M. Calculate (*a*) the I.H.P. and (*b*) the probable consumption of gas per I.H.P. per hour if its thermal value is 650 B.T.U. per cubic foot, and the specific heat of the burnt gases is ·37.

2. Given only an indicator, how would you determine the mechanical efficiency of an engine at full load?

3. The aggregate power required to drive the machines installed in a factory is 400 H.P. Transmission is to be effected by belts, each line of shafting being driven direct from the jack shaft. The engine is to be of the compound condensing Corliss type operating with steam at 120 lbs. pressure. Determine (*a*) the I.H.P. of the engine, (*b*) the number and size (heating surface) of the boilers, (*c*) the size (diameter and width of wheel) and speed of fan required to handle the flue gases and give a draft equivalent to $\frac{5}{8}''$ of water, and (*d*) the amount of heating surface required in the feed-water heater. The loss of power in transmission over one belt is 7%.

4. How would you determine the relative value of two oils in practical work, not knowing the coefficients of friction? State any precautions necessary in your method. The friction loss in a certain factory is 120 H.P. and the cost of power is 1 cent per H.P. per hour. The oil con-

sumption is ·08 gallons per hour, the cost is 80 cents per gallon, and the coefficient of friction is ·10. It is proposed to substitute for this oil another oil, of which the coefficient of friction is ·11, at a cost of 40 cents per gallon. Determine the gain or loss if 10% more oil is used.

5. In a system of power transmission by compressed air the pressure is 80 lbs., and the compression is effected in a compound water-cooled compressor. The temperature of the air when it reaches the motors is 50° F., and its pressure is 75 lbs. If the air is expanded to 24 lbs. absolute in the motors, determine the over-all efficiency. The mechanical efficiency of the compressor may be taken at 90% and of the motors 85%.

6. A copper wire spans 120′, measured horizontally, and the sag at 80° F. is 30″. Calculate (*a*) the stress in the wire at this temperature, and (*b*) the sag and stress at −10° F. Copper weighs 550 lbs. per cubic foot, and the coefficient of expansion is 95×10^{-7}.

7. Discuss the advantages of the electric system of driving in machine shop and mill work.

FACULTY OF PRACTICAL SCIENCE.

Mechanical Engineering VI.

1. Design the following parts for a $15'' \times 30'' \times 30''$ vertical cross compound engine to operate with steam at 150 lbs. and a vacuum of 27·5″: (*a*) shaft and cranks, (*b*) main bearings, (*c*) connecting rods, (*d*) piston rods, and (*e*) cylinders and cylinder covers, including studs for holding on covers. The cut-off in the high pressure cylinder occurs at $\frac{1}{3}$ stroke, the receiver pressure is 30 lbs., the work is equally divided between the cylinders and the speed is 120 R.P.M. The shaft, cranks, and rods are to be of mild steel.

2. Design a condenser for the engine specified in question 1. Show dimensions on detail sketches.

3. Determine the following data for a three-stage air compressor to deliver 500 c. ft. of free air per minute at 150 lbs. pressure, assuming the air to be cooled between stages to the initial temperature (60°), and that the same amount of work is done in each stage: (*a*) the dimensions of the cylinders, (*b*) the cooling surface required in each intercooler, (*c*) the H.P. required to drive it, allowing a mechanical efficiency of ·88, and (*d*) the thickness of the cylinders.

Descriptive Geometry.

1. The vertical and horizontal traces of a plane make angles at 60° and 45° respectively with the ground line. Find the angles which the plane itself makes with each plane of projection.

2. A circular cylinder of $2\frac{1}{2}$-inch diameter, with its axis vertical is cut by a plane which makes angles of 60° and 45° respectively with the vertical and horizontal planes. Draw plan, elevation and true shape of section, and also development of cylinder, showing curve of section.

3. Find the dihedral angle contained by two adjacent faces of the following regular solids: (*a*) Tetrahedron, (*b*) Dodecahedron.

4. ABC is a triangle of which the side AC=2″, BC=3″ and the angle ACB=60°. The points A,B,C, are 1″, $1\frac{3}{4}$″ and $2\frac{1}{2}$″ respectively above the horizontal plane, and the side AB lies in the vertical plane; draw plan and elevation of the triangle ABC.

5. Draw an axometric projection of a rectangular block $2'' \times 2\frac{1}{2}'' \times 4\frac{1}{2}''$ with the axes at angles of 105°, 120° and 135°. Also draw projection of a mortise $1'' \times 2\frac{1}{2}''$ and 1″ deep cut in the centre of a wide face.

[Any two of the following.]

6. Draw the plan and elevation of a square pyramid of 2″ base, and 3″ high, when the plane of base makes angles of 45° and 60° with the vertical and horizontal planes respectively, one edge of base making an angle of 30° with the horizontal plane, and the lowest point of the

pyramid resting on the horizontal plane 2 in. from the ground line.

7. Draw the projections of the common perpendicular between any two lines.

8. Design a sun-dial for latitude 45°.

FACULTY OF PRACTICAL SCIENCE.

Surveying I.

1. A tract of land contains exactly 100 acres. It is surveyed by means of a Gunter's chain, and the computed area is found to be 99.6 acres. What is the error in the chain?

2.

Course.	Bearing.	Dist.
AB	S 30° E	50.0 chains.
BC	N 45° E	100.0 "
CD	N 60° W	80.0 "

Find the length and bearing of AD and the area of field.

3. How are the following adjustments of the Dumpy level made? (*a*) collimation, (*b*) bubble. In what order should they be made? [Not more than 200 words to be used in answering this question.]

4. In what respects does the American type of transit differ from the English?

5. Give a form of field notes to be used in making a traverse survey with chain and transit.

6. Give reasons for making backsights equal to foresights in running a line of levels.

7. Why should a surveyor's chain be tested frequently? What causes tend to change its length?

8. Describe the process of chaining a line say 1500 ft. in length.

9. Draw a sketch showing the graduated circle of the surveyor's compass.

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Surveying II.

1.

Sta.	Dist.	Bearing.	
A	564.0 ft.	N. 30° 20′ E.	to B.
	1240.0	S. 72° 20′ E.	" E.
B	872.0	N. 59° 18′ E.	" C.
E	630.0	N. 45° 24′ E.	" D.

Find the distance and bearing from C to D, and also the area of the field in acres.

2.

Sta.	Grade.	Elev.	Slopestakes R.	Slopestakes L.
130+00	142.5	154.2	26.2	22.3
131+00	143.0	152.6	23.0	20.2
132+00	143.5	151.0	20.0	17.1

Slopes 1–1, roadbed 22 ft. wide. Find amount of excavation in cu. yds.

3. Describe a method of laying out a curve by means of chord offsets.

4. Chainage of B.C. 124+43.5; computed bearing of tangent at B.C., N 26° 24′ E; degree of curve, 6° left; chainage of E.C. 129+87.6; find the tangent distance, the angle of intersection at the P.I. and the computed bearing of the tangent at the E.C.

5. The following stadia readings were taken: upper wire 10.732; lower wire 6.328; vertical angle 13° 40′; f/i=100, f=0.8 ft., c=0.4 ft. Find the horizontal distance from centre of instrument to rod.

6. Give any solution of the "three point problem," and a case where it might be used to advantage.

7. Reference object 0° 0′; Polaris at W. elongation 37° 42′ on horizontal circle; polar distance of Polaris 1° 11′ 30″; latitude 44° 14′. What is the reading on the horizontal circle when the telescope is in the meridian?

8. Describe a method of cross-sectioning for a borrow pit, and illustrate by an example and sketches.

9. Describe the principal adjustments of the sextant. What is the principle of the sextant?

FACULTY OF PRACTICAL SCIENCE.

Surveying IV.

1. What are the main features of the different systems of survey of Dominion lands?

2. Draw a sketch of a township subdivided according to the third system, showing monuments, road allowances, and numbering of sections.

3. What is meant by *convergence of meridians, jog, base line, witness monument, block, trial line?* What is the amount of convergence for Township 72?

4. What monuments would be placed on Sec. 36, Tp. 16, R. 1, and on Sec. 6, Tp. 19, R. 1, and how would they be placed?

5. Give any method of determining true meridian, and illustrate the method by an example for the N.E. corner of Tp. 48.

6. The course of a vein bears N. 45° E., and the direction of its pitch S. 45° E. Its dip is 20° with the vertical. From a point on the outcrop, the mouth of a tunnel bears S. 70° E. 230 feet. Vertical angle —22°. How far must the tunnel be driven horizontally N. 70° W. to reach the vein?

7. What are the essential features of the mining transit, as distinguished from the engineer's transit?

8. Describe a method for the measurement of a base line which would give an accuracy of 1:100,000. What precautions should be taken, and what corrections applied?

9. Three measurements of a base line were as follows: 21416.284, 21415.862, and 21416.592. What is the probable error of the mean?

FACULTY OF PRACTICAL SCIENCE.

Mechanism.

1. Describe the involute tooth and its advantages.

2. Devise a train with value 420 wherein no wheel has more than 90 teeth and no pinion less than 10, and the number of axes is least possible.

3. Describe "Hooke's joint;" and explain how it is made to transmit rotation uniformly.

4. (*a*) Give the character of pairs of speed-pulleys for a crossed belt, and prove your statement. (*b*) Two drive pulleys on the same shaft have diameters 48 and 12 respectively. Find their followers on a common shaft when the velocity given by pulley 48 is 10 times that given by pulley 12, the belt being crossed.

5. Discuss the character of the pin-and-slot hypocycloidal wheels.

6. Show how to lay out a cam for a uniform motion of translation.

7. (*a*) Describe and illustrate harmonic motion. (*b*) Show that the cross-head of a common steam-engine does not move with harmonic motion, and why it does not.

THEOLOGY.

Systematic Theology.

[Six questions will be regarded as a full paper.]

1. Why are we entitled to regard God as personal?

2. Distinguish between the Deistic, Pantheistic and Theistic conceptions of God.

3. What is the Old Testament teaching regarding the relation of God to the world?

4. How is our idea of God affected by the Teaching and Person of Christ?

5. Compare the idea of God as Father with the idea of Him as Creator and as Sovereign.

6. Compare the Trinitarian and the Unitarian conceptions of God.

7. In what respects is the Bible doctrine of man in harmony with the theory of Evolution?

8. State and examine the theory that would account for evil as the result of man's bodily nature.

9. Examine the statement, "Sin is selfishness."

Apologetics.

FIRST PAPER.

1. How does Paul differentiate his visions of which he speaks in 2 Cor. 12, from his vision of the risen Christ?

2. The conclusions of criticism conflict with the statements of Jesus regarding the Mosaic authorship of the Pentateuch and the Davidic authorship of the Psalms; how do these conclusions affect His authority as a teacher?

3. State Cheyne's conjecture as to the origin of the story of the Virgin birth of our Lord, and criticise it, pointing out its inadequacy.

4. In what sense did the Jews use the expression "Son of God," and what did it imply to the mind of Jesus?

5. It is said that Jesus claimed merely an ethical relationship to God when speaking of himself as Son, a relationship analogous to that of believers. Mention some of His sayings which show this contention to be inaccurate.

6. If a special Revelation be given what conditions must it fulfil? Discuss this question.

Apologetics.

SECOND PAPER.

1. "The Old and New Testament Scriptures are the production of men who were divinely inspired." What interpretation do you give to this statement?

2. State Huxley's position regarding the question of miracles.

3. Discuss the bearing of the principle of Continuity on the alleged deviations from the order of Nature recorded in the Gospels.

4. Mention the main causes of the rise of English Deism. What was the task which Butler set before himself in his Analogy?

5. Describe the Chinese worship of Ancestors. What is their idea regarding (1) sacrifice, (2) immortality?

6. What are (1) the fundamental principles of the Buddhistic faith, (2) the various steps by which the goal of the religious life is to be obtained by the followers of Buddha?

7. Will the teaching of Jesus be superseded in the progress of civilization, and Christianity become an effete system? Discuss this briefly, giving reasons for your conclusion.

Old Testament Criticism.

I. Genesis.

1. Give a bare outline of the contents of the book. Mention a specimen of each of the three great documents.

2. Translate with a brief explanatory note I. 1-3, and XXII. 14.

3. Parse the verbs in I. 28; the nouns in II. 24; and explain the connection of the verbs in II. 23.

4. Translate carefully III. 14, 15.

II. Deuteronomy.

1. Explain the origin of the name.

2. Write a brief note on either of the following subjects:—(*a*) The idea of God in the book, or (*b*) the relation of its teaching to that of the early prophets.

3. Chapter VIII. State clearly the different ideas contained in this section. What verses contain the primary material? Translate three of these.

4. State the different elements of Steuernagel's analysis. Give a quotation from or a reference to each of these. To which of them does the "parentic" character most fully belong?

5. How does this analysis affect the question of date and authorship?

6. Write a brief note on the place of the book in the history of Hebrew Religion.

N.T. Criticism and Exegesis.

1. Give Clemen's theory of the authorship of the Acts of the Apostles, and criticise it.

2. State any points of contact between Peter's addresses in the Acts, chaps. 2–3 and the First Epistle of Peter.

3. Analyse the structure of Acts, chaps. 2–5, and point out the method followed by the historian in framing his narrative.

4. Why have the revisers omitted Acts 8:37 from their text? Explain the probable origin of the verse.

5. Translate and interpret:

Rom. 3:7–8.
" 4:11–12.
" 5:10.

6. Give Lightfoot's theory of the origin of the Doxology in Rom. 16:20, and in Rom. 16:25–27.

7. Paraphrase carefully Rom. 3:23–26.

Church History.

1. From whom do we know that Christian women suffered in the Neronian persecution as "daughters of Danae and Dirces?" How are the words to be understood?

2. What evidence is there that in the time of Domitian Christianity had made some headway among the upper classes?

3. Give the important points of Pliny's letter to Trajan and of Trajan's Rescript. Point out and explain the seeming contradictions in the latter. On what principles of Roman law does it depend?

4. What was the significance of the demand that Christians should swear by the Genius of Caesar? Give Justin Martyr's defence of their refusal.

5. Describe the martyrdom of Polycarp and his companions, throwing into relief the typical incidents.

6. Explain and illustrate the recrudescence of superstition in the time of Marcus Aurelius.

7. What were the strong and the weak points of Stoicism?

8. Relate the conflict between Philip of France and Pope Boniface.

9. What were the elements which entered into the Papal doctrine of Indulgences?

10. Trace the stages of Luther's alienation from Rome.

History of Dogma.

1. What was the meaning of the Deutero-Isaiah's conception of the "suffering servant"? Show how it was distorted in the Pharisaic Theology.

3. What was the antique view of sacrifice? How did the notion of vicarious substitution come to coalesce with it?

3. Give some account of Paul's religious experience and show what dogmatic expression he found for it.

4. In what sense does Paul regard the work of Jesus as a "finished work"?

5. What are the seeming discrepancies in the points of view underlying the Fourth Gospel? How do you account for them?

6. Indicate the place of the Johannine writings in the development of New Testament Theology.

7. Sketch the meaning and the historical bearings of the Logos-Doctrine.

8. Show how the Johannine Theology eliminates in principle the last remnants of Judaism.

HONOURS.

Old Testament Criticism.

Genesis I.–V.

1. Summarize (*a*) the arguments for the late date of I.–II. 4[a]. (*b*) The difference in the two accounts of creation.

2. Translate II. 1-4, with a note on "The Sabbath."

3. Mention different explanations of the double name in II. and III. Which do you prefer?

4. Discuss the relation of II. 10-15 to the context.

5. Parse the verbs in I. 24; II. 21; III. 7.

6. Translate carefully and arrange in metrical form III. 14-19.

7. Write an explanatory note on IV. 6, 7; and on "Lamech's Song."

HONOURS.

Old Testament Criticism.

Micah.

1. Translate I. 2-4. Discuss briefly Marti's objections to the genuineness of these verses.

2. Write a brief critical note on I. 5.

3. Translate carefully and arrange in metrical form II. 1-4.

4. Discuss the date and authorship of IV. 1-5.

5. Translate VI. 1-8. Discuss the structure of the passage, and the place of its teaching in the prophetic doctrine.

6. Parse each word in II. 2.

7. Can you trace any connection of thought running through IV. 10-14; if so, what is it?

B.D. EXAMINATIONS.

Old Testament Criticism.

Daniel. Aramaic.

1. How do you account for the fact that this book is written in two languages?

2. Mention some of the important differences in the grammar of these languages.

3. Summarize clearly the arguments for the Maccabean date of this book.

4. State briefly the contents of the book.

5. To what class of literature does the book belong? Give reasons for your answer.

6. What form corresponds to the Hebrew Qal? Give the infinitive, the 3rd sing. imperf., the active and passive participles.

7. Translate II. 6-8, 37-39; III. 13-15.

8. Parse each word in the following verses: II. 18, 21, 31; III. 25.

Honour O.T. Criticism.

The Hexateuch.

1. Write a brief note on the literary style and theological character of J., E., P., and D.

2. Give specimens of "duplicate narratives" from the book of Exodus.

3. Of what documents is the book of Genesis composed? Mention parts which are assigned to each document.

4. Show in what way the work of Eichhrn was an advance on that of Astruc.

5. Mention the different legal codes contained in these documents, and note some of their similarities and differences.

6. Mention some linguistic differences in the usage of J. and P.

7. What are the strongest arguments brought forward against the Mosaic authorship of Deuteronomy?

8. "When the date of the final form of a document has been fixed there remain many questions as to the origin of its contents, and the connection between the present form of these and more ancient traditions." Explain and illustrate this statement.

9. Examine this criticism of the supplement theory: "Born of contradictory principles, it exhausted itself in trying to conciliate them. It could only establish itself by suppressing the Jehovist, and in suppressing the Jehovist it took away all chance of its own life."

HONOURS.

N.T. Criticism and Exegesis.

1. Translate Rom. 3:24–26, carefully and explain fully the meaning of the passage. Write notes on (1) *ἱλαστήριον*, (2) *ἀπολυτρώσεως*, (3) *εἰς ἔνδειξιν τῆς δικαιοσύνης αὐτοῦ . . . . ἐν τῇ ἀνοχῇ τοῦ θεοῦ.*

2. Explain the meaning of (1) Rom. 4 : 11-12. (2) Rom. 5 : 1. Justify the reading of the R.T. (3) Rom. 6 : 3, 4.

3. How does Paul vindicate against the Jew his gospel of justification by faith?

4. What is the condition of salvation laid down in the Epistle to the Hebrews?

5. Explain the meaning of (1) Heb. 2 : 10-11. How is *ἀγαγόντα* to be understood? (2) Heb. 2 : 14-15. *ἵνα διὰ τοῦ θανάτου . . . . τὸν διάβολον.*

6. Distinguish *κράτος*, *δύναμις*, *ἰσχύς* *ἐξουσία*, *ἐνέργεια*: *μετέχω* and *κοινωνέω*

HONOURS.

N.T. Criticism and Exegesis.

1. State the three periods into which the history of the N.T. Canon may be divided, and the task accomplished during each period.

2. What testimony do the Apostolic Fathers bear to the authority of the writings of the Apostles?

3. What is the date of the Peshito Syriac Version, and what books of the N.T. does it include?

4. Give an account of the Muratorian fragment on the Canon, and mention the writings which it embraces.

5. At what council was the present Canon of the N.T. fixed by decree? Give the date.

6. On what principle did Marcion determine the books that received a place in his Canon?

7. What was the conclusion reached by the Council of Trent with regard to the contents of the Canon of the N.T.?

HONOURS.

N.T. Criticism and Exegesis.

1. Give a brief account of the moral and social condition of Rome when Paul wrote his Epistle to the Church there.

2. Describe the constitution of the synagogue at Rome at the date of Paul's Epistle.

3. Discuss the origin of the Christian Church at Rome.

4. What connection had the Apostle Peter with the Church at Rome?

5. State and discuss Baur's view of the purpose for which Paul wrote his Epistle to the Romans.

6. Describe the character of the body to whom the Epistle to the Hebrews was addressed, and mention the locality in which they lived, giving your reasons.

7. Point out the differences in style of the Epistle to the Hebrews and of the Pauline writings.

EXAMINATION FOR B.D.

N.T. Criticism and Exegesis.

1. What proportion of the words of the N.T. text is now accepted as beyond doubt, and what proportion of words may be regarded as constituting *substantial* variation?

2. Describe the methed of preparing the papyrus used for MSS. What dates does the papyrus period of N.T. MSS. cover?

3. Transcribe into cursive writing the sections indicated in Codd. A.B.D., giving breathings, accents, punctuation.

4. Explain $\aleph^b$, C_3, D.* *

5. By what critical canons is the correct reading determined in (1) Jas. 3:12 where some Codd. read *οὔτε ἀλυκὸν γλυκὺ ποιῆσαι*, and others *οὕτως οὐδεμία πηγὴ ἀλυκὸν καὶ γλυκὺ ποιῆσαι ὕδωρ.* (2.) Rev. 22:14 where some Codd. read *μακάριοι οἱ πλύνοντες τὰς στολὰς αὐτῶν*, and others *μακάριοι οἱ ποιοῦντες τὰς ἐντολὰς αὐτοῦ ἵνα κ.τ.λ?*

6. (1) To what family of texts does Cod. D. belong? (2) In what special respect does it differ from the text of the older Uncials? (3) What is Blass' theory regarding its text of the 3rd Gospel and the Acts of the Apostles?

EXAMINATION FOR B.D.

Holy Scripture, N.T.

I. General.

1. Outline the contents of the Fourth Gospel and the Epistle to the Philippians.

2. Relate the account of St. Paul's visit to Athens.

3. What are the reasons given in the Epistles to the Hebrews for the superiority of Christ's priesthood over the Levitical?

4. What is the context of the following:

(1) The labourer is worthy of his hire.
(2) It is more blessed to give than to receive.
(3) God is not a god of confusion, but of peace.
(4) They that sleep sleep in the night, and they that be drunken are drunken in the night.

II. Special.

1. Write down Mark's narrative of (1) the healing of the leper, (2) the sending forth of the twelve, (3) the Resurrection of Jesus.

2. According to Mark, what was the subject of the disciples' preaching?

3. How many baskets full of fragments were taken up after feeding the five thousand?

4. In what connection are the following found? "The Sabbath was made for man." "Is it lawful to do good on the Sabbath day, or to do evil?" "Go thy way, thy faith hath made the whole." "Is it lawful to give tribute to Caesar or not?"

EXAMINATIONS FOR B.D.

Holy Scripture—Old Testament.

I. General.

1. Where are the Ten Commandments? Write down the first three.

2. Sketch briefly the lives of Samuel and Saul.

3. Give an outline of the contents of the book of Ezekiel.

4. Where is the Song of Deborah found, to what age does it belong, what is its subject and spirit?

5. Where are the following persons mentioned: Balaam, Ehud, Haman, Joab, Sanballat, Mordecai?

6. Place the following quotations: "Choose you this day whom ye will serve"; "Out of the eater came forth meat, and out of the strong came forth sweetness"; "And she named the child Ichabod, saying, The glory of Israel is departed"; "Prepare to meet thy God, O Israel"; "And they that be wise shall shine as the brightness of the firmament".

II. Special, Isaiah.

1. Give some quotations from the following chapters: XXII., XXIV., XXXV., LV.

2. Give in your own words the Immanuel Prophecy; state where it is found and under what circumstances it was given.

3. Mention the main divisions of chapters I.–XXXIX. inclusive, indicating briefly the subjects treated in each section.

4. Where do the following passages occur: "Awake, awake, put on thy strength, O Zion, put on thy beautiful garments, O Jerusalem, the holy city"; "Set thine house in order; for thou shalt die, and not live"; "Behold, a King shall reign in righteousness, and princes shall rule in judgment"; "Hell from beneath is moved for thee to meet thee at thy coming"?

5. Quote chap. XLII. verses 1-4.

EXAMINATION FOR B.D.

Apologetics.

1. "Further religious progress is possible only by keeping within the limits of Theism." Discuss this statement.

2. What are the elements of truth and error in Anthropomorphic Theism?

3. State the principle of Causality, and show the invalidity of the argument for the existence of God based upon it.

4. Discuss the argument from Conscience for the Divine existence.

5. "Matter is the cause of force." Criticise this assertion.

6. How did Schopenhauer attempt to account for the Universe without referring to God?

7. M. Comte maintained that we can know nothing of final causes. Show that in doing so he was guilty of self-contradiction.

EXAMINATION FOR B.D.

Apologetics.

1. Criticise the conception of the infinite (1) as the negation of the finite, (2) as the positive basis and presupposition of the finite.

2. "Development is a process in which identity manifests itself *just in* change, and returns upon itself *just by means of* change." (1) Explain this definition. (2) Define development in the terms of (*a*) Spencer, (*b*) Hegel.

3. Trace the rise of the belief in a special power of evil in later Judaism.

4. How does Jesus solve the problem of evil?

5. Show briefly in what sense Christianity is original and unique.

EXAMINATION FOR B.D.

Apologetics.

1. State the position taken by Spinoza in the Tractatus Theologico Politicus, and his argument in support of it.

2. State the teaching of Deism and of the modern speculative Theism regarding God's relation to (1) the universe, (2) miracles, (3) inspiration, (4) prayer.

3. What is Miss Cobbe's view of the efficacy of prayer?

4. What is Kant's argument for the existence of God? Give Strauss' criticism of it.

5. Show (1) that the doctrine of the virgin birth of our Lord is implicitly taught by Paul, (2) how the presence of the narrative of the miraculous birth of Jesus in the gospels is to be accounted for.

6. "The synoptic miracles are in the main miracles of *humanity*, the Johannine are miracles of *state*." Explain the statement.

7. State and criticise Dr. Martineau's theory of the origin of the disciples' belief in the Resurrection of our Lord.

EXAMINATION FOR B.D.

The Church.

1. What was the significance of the Conference at Jerusalem? (Acts 15.)

2. What was the authority of the Apostles in the early Church?

3. What are the various uses of the word *ἐκκλησία* in the Pauline Epistles?

4. Discuss the meaning and use of the terms *διάκονος*, *πρεσβύτερος*, *ἐπίσκοπος*.

5. What influences led to the supremacy of the Bishop?

6. Through what influences did the officers of the Church become a separate class?

EXAMINATION FOR B.D.

The Christian Idea of God.

1. Why are we entitled to regard God as personal?

2. Distinguish between the Deistic and the Pantheistic conceptions of God.

3. What is implied in the righteousness of God, and how do we obtain our idea of it?

4. Compare the idea of God as Father with the idea of Him as Creator and as Sovereign.

5. Write an expository note on the words of Jesus, "He that hath seen Me hath seen the Father." (John 14:9.)

6. Distinguish between the Trinitarian and the Unitarian conceptions of God. How does the former specially commend itself?

HONOURS.

Church History.

Translate with notes the following passages, and refer them to their context:

1. *Περὶ δὲ τοῦ βαπτίσματος, οὕτω βαπτίσατε· ταῦτα πάντα προειπόντες βαπτίσατε εἰς τὸ ὄνομα τοῦ Πατρὸς καὶ τοῦ Υἱοῦ καὶ τοῦ ἁγίου Πνεύματος ἐν ὕδατι ζῶντι ἐὰν δὲ μὴ ἔχῃς ὕδωρ ζῶν, εἰς ἄλλο ὕδωρ βάπτισον· εἰ δ' οὐ δύνασαι ἐν ψυχρῷ, ἐν θερμῷ. ἐὰν δὲ ἀμφότερα μὴ ἔχῃς, ἔχεον εἰς τὴν κεφαλὴν τρὶς ὕδωρ εἰς ὄνομα Πατρὸς καὶ Υἱοῦ καὶ ἁγίου Πνεύματος. πρὸ δὲ τοῦ βαπτίσματος προνηστευσάτω ὁ βαπτίζων καί ὁ βαπτιζόμενος καὶ εἴ τινες ἄλλοι δύνανται. κελεύεις δὲ νηστεῦσαι τὸν βαπτιζόμενον πρὸ μιᾶς ἢ δύο.*

2. *Περὶ δὲ τῆς εὐχαριστίας, οὕτω εὐχαριστήσατε· πρῶτον περὶ τοῦ ποτηρίου Εὐχαριστοῦμέν σοι, Πάτερ ἡμῶν, ὑπὲρ τῆς ἁγίας ἀμπέλου Δαυεὶδ τοῦ παιδός σου, ἧς ἐγνώρισας ἡμῖν διὰ Ἰησοῦ τοῦ παιδός σου· σοὶ ἡ δόξα εἰς τοὺς αἰῶνας. περὶ δὲ τοῦ κλάσματος· Εὐχαριστοῦμέν σοι, Πάτερ ἡμῶν, ὑπὲρ τῆς ζωῆς καὶ γνώσεως, ἧς ἐγνώρισας ἡμῖν διὰ Ἰησοῦ τοῦ παιδός σου· σοὶ ἡ δόξα εἰς τοὺς αἰῶνας. ὥσπερ ἦν τοῦτο τὸ κλάσμα διεσκορπισμένον ἐπάνω τῶν ὀρέων καὶ συναχθὲν ἐγένετο ἕν, οὕτω συναχθήτω σου ἡ ἐκκλησία ἀπὸ τῶν περάτων τῆς γῆς εἰς τὴν σὴν βασιλείαν· ὅτι σοῦ ἐστὶν ἡ δόξα καὶ ἡ δύναμις διὰ Ἰησοῦ Χριστοῦ εἰς τοὺς αἰῶνας. μηδεὶς δὲ φαγέτω μηδὲ πιέτω ἀπὸ τῆς εὐχαριστίας ὑμῶν, ἀλλ' οἱ βαπτισθέντες εἰς ὄνομα Κυρίου. καὶ γὰρ περὶ τούτου εἴρηκεν ὁ Κύριος Μὴ δῶτε τὸ ἅγιον τοῖς κυσί.*

3. *Πᾶς δὲ ὁ ἐρχόμενος ἐν ὀνόματι Κυρίου δεχθήτω· ἔπειτα δὲ δοκιμάσαντες αὐτὸν γνώσεσθε—σύνεσιν γὰρ ἕξετε—*

δεξιὰν καὶ ἀριστεράν. εἰ μὲν παρόδιός ἐστιν ὁ ἐρχόμενος, βοηθεῖτε αὐτῷ ὅσον δύνασθε· οὐ μενεῖ δὲ πρὸς ὑμᾶς εἰ μὴ δύο ἢ τρεῖς ἡμέρας, ἐὰν ᾖ ἀνάγκη. εἰ δὲ θέλει πρὸς ὑμᾶς καθῆσθαι, τεχνίτης ὤν, ἐργαζέσθω καὶ φαγέτω. εἰ δὲ οὐκ ἔχει τέχνην, κατὰ τὴν σύνεσιν ὑμῶν προνοήσατε, πῶς μὴ ἀργὸς μεθ' ὑμῶν ζήσεται Χριστιανός. εἰ δ' οὐ θέλει οὕτω ποιεῖν, χριστέμπορός ἐστιν· προσέχετε ἀπὸ τῶν τοιούτων.

4 Κατὰ κυριακὴν δὲ Κυρίου συναχθέντες κλάσατε ἄρτον καὶ εὐχαριστήσατε προεξομολογησάμενοι τὰ παραπτώματα ὑμῶν, ὅπως καθαρὰ ἡ θυσία ὑμῶν ᾖ. πᾶς δὲ ἔχων τὴν ἀμφιβολίαν μετὰ τοῦ ἑταίρου αὐτοῦ μὴ συνελθέτω ὑμῖν, ἕως οὗ διαλλαγῶσιν, ἵνα μὴ κοινωθῇ ἡ θυσία ὑμῶν. αὕτη γάρ ἐστιν ἡ ῥηθεῖσα ὑπὸ Κυρίου· Ἐν παντὶ τόπῳ καὶ χρόνῳ προσφέρειν μοι θυσίαν καθαράν· ὅτι βασιλεὺς μέγας εἰμί, λέγει Κύριος, καὶ τὸ ὄνομά μου θαυμαστὸν ἐν τοῖς ἔθνεσι.

5. Εἶτα τούτων τὰ ἀκόλουθα ἄκουσον· χήραις ὑπηρετεῖν, ὀρφανοὺς καὶ ὑστερουμένους ἐπισκέπτεσθαι, ἐξ ἀναγκῶν λυτροῦσθαι τοὺς δούλους τοῦ Θεοῦ, φιλόξενον εἶναι (ἐν γὰρ τῇ φιλοξενίᾳ εὑρίσκεται ἀγαθοποιήσις ποτε), μηδενὶ ἀντιτάσσεσθαι, ἡσύχιον εἶναι, ἐνδεέστερον γίνεσθαι πάντων ἀνθρώπων, πρεσβύτας σέβεσθαι, δικαιοσύνην ἀσκεῖν, ἀδελφότητα συντηρεῖν, ὕβριν ὑποφέρειν, μακρόθυμον εἶναι, μνησικακίαν μὴ ἔχειν, κάμνοντας τῇ ψυχῇ παρακαλεῖν, ἐσκανδαλισμένους ἀπὸ τῆς πίστεως μὴ ἀποβάλλεσθαι ἀλλ' ἐπιστρέφειν καὶ εὐθύρους ποιεῖν, ἁμαρτάνοντας νουθετεῖν, χρεώστας μὴ θλίβειν ἐνδεεῖς, καὶ εἴ τινα τούτοις ὁμοιά ἐστι.

EXAMINATION FOR B.D.

Comparative Religion.

1. State and criticise (1) Max Müller's, (2) Herbert Spencer's definition of religion, and give what you consider a correct definition, justifying it by valid reasons.

2. Describe Fetishism and Animism, and show that Fetishism was not the primitive form of religion.

3. Explain the Chinese worship of Heaven and of the spirits of ancestors.

4. Mention the sources of the strength of Confucianism.

5. What is the Buddistic idea of salvation, and how is it to be attained?

6. Explain the doctrine of Budatship of later Buddhism.

7. On what grounds must Mahommedanism be regarded a universal religion?

Honour Exegesis, Ph.D.

Micah.

1. Translate, and comment carefully on the following passages: II. 4, III. 8, IV. 9, 10, V. 1, 2.

2. (*a*) What parts of the book would you assign to the prophet Micah? (*b*) Take any section, other than IV. 1–5, and state clearly your reasons for the period to which you assign it? (*c*) How would you account for the present arrangement of the book?

3. Translate IV. 1–5 Contrast this passage with Isaiah II. 1–5. To what period would you assign this, and why?

4. Discuss the following words and clauses:

הַפֹּרֵץ: אַשּׁוּר: כַּרְמֶל: הַצְּנֹעַ: מַטְיְךָ: מִן־הַשִּׁטִּים
עַד־הַגִּלְגָּל: הָאֲתָנִים: חֻקּוֹת עָמְרִי: מִי בָמוֹת יְהוּדָה:
וְהִשְׁמַדְתִּי עָרֶיךָ: בָּכוֹ אַל־תִּבְכּוּ:

ἐγγίσατε ὄρεσιν αἰωνίοις.

5. Discuss the use of Mic. III. 12 made by the defenders of Jeremiah in Jer. XXVI. 18, 19.

6. What might we infer, from the book of Micah as a whole, regarding the essence of prophecy?

MEDICINE.

FACULTY OF MEDICINE.

Physics.

1. A river flows north at the rate of 9 miles per hour and a man rows a boat directly east at 4 miles per hour. Indicate by a diagram the direction in which the boat goes and calculate from the diagram its speed in that direction.

2. Distinguish between Fahrenheit and centigrade thermometers. (*a*) If a Fahrenheit thermometer registers 75° what will a centigrade thermometer register? (*b*) Why can you not measure the quantity of heat in a body by the thermometer alone?

3. You have a solution of salt in water. Explain how you would obtain pure water from the solution.

4. How would you prove that a sounding fork is vibrating? What relation has the frequency of its vibration to the sound it produces?

5. Account for an eclipse of the moon. Show by a diagram the difference between total and partial eclipses.

6. How is a beam of sunlight affected in passing through a triangular glass prism? How does this effect differ from (*a*) that due to a thick glass plate with parallel sides, (*b*) the effect of the same triangular prism on a beam from a sodium flame?

7. Describe two ways in which an electric current may be measured and explain the principle which underlies each.

8. Describe one way in which you can prevent (to some extent at least) the deposit of hydrogen on the copper

plate of a voltaic cell. What is the object of removing the deposit?

9. The electro-motive force of a battery is 15 volts. What will be the current through the circuit if the total resistance is 25 ohms? What quantity of electricity will pass in 2 minutes?

10. Describe an induction coil and explain its action.

FACULTY OF MEDICINE.

Animal Biology.

1. Distinguish the different phyla of vermes. Describe the anatomy of the fresh water clam, and the leech.

2. Point out the relationships of peripatus. Write notes upon the metamorphosis, the mouth parts, and the wings in different orders of insects.

3. Give the characters of the chordata, and specify the sub-phyla. Distinguish the classes of the craniata. What are the distinctive characters of birds?

Junior Physiology.

1. What is it that determines the velocity of the blood at different points along the blood vessels? Specify approximate velocities in arteries, veins, and capillaries. What are *vasa vasorum?*

2. How is blood serum obtained? What is its composition?

3. What are the chief general characters of enzyme action in the alimentery canal?

4. How does expired air differ from inspired air? Where do the chemical changes take place that thus alter air? How do we know?

5. What are the natural, and what are the artificial means by which a man can exist in a very cold, or in a very warm climate?

6. Give the composition of urine.

7. Describe some of the experiments and observations that have been made upon a frog that has been deprived of its cerebral hemispheres. Explain and illustrate what is meant by *common* sensations.

FACULTY OF MEDICINE.

Junior Anatomy.

1. Give the attachments of the long plantar ligament.

2. Name the branches of the radial artery.

3. What structures pass through the great sacro-sciatic foramen?

4. Name all the structures exposed on reflection of the deltoid.

5. Describe the os calcis.

6. Name muscles attached to the great trochanter.

7. Name the muscles forming the thenar eminence.

8. (*a*) Give the origin of the obturator extrernus, (*b*) give the insertion of the supinator brevis.

9. Name the branches of the ulnar nerve.

10. Describe the wrist joint.

FACULTY OF MEDICINE.

Junior Chemistry.

1. Why is the formula (molecular) weight of hydrogen two? Why not one? Answer fully.

2. State carefully the data required for finding the accurate atomic weight of an element.

3. Write a description of hydrogen peroxide under the following heads: (*a*) manufacture, (*b*) physical properties, (*c*) chemical properties, (*d*) uses.

4. Write equations for the following reactions:

(*a*) Sulphuretted hydrogen on solution of lead nitrate, (*b*) ammonium sulphide on solution of ferrous sulphate, (*c*) ammonium carbonate on solution of calcium chloride, (*d*) calcium sulphate on solution of barium chloride, (*e*) sodium phosphate and ammonia on solution of magnesium sulphate.

5. (*a*) What is a compound radicle? (*b*) Illustrate by reference to hydroxides and ammonium compounds, using formulas.

6. (*a*) The gas density of an oxygen compound is 3·46 (air=1). Calculate its formula weight. (*b*) Its percentage of oxygen is 48, calculate the quantity of oxygen in its formula weight. (*c*) How many times 0=16 will its formula have?

7. Write notes on carbon dioxide under the heads: (*a*) Occurrence in nature, (*b*) manufacture, (*c*) physical properties, (*d*) chemical properties, (*e*) uses, (*f*) relations to plant and animal life.

8. What poisonous compounds are there in the following substances? (*a*) Burning gas made from coke and steam, (*b*) the flame of a Bunsen burner burning at the bottom of the tube, (*c*) a mixture of ferrous sulphide and dilute sulphuric acid, (*d*) a solution of potassium cyanide to which hydrochloric acid has been added.

9. Write the equation for the complete combustion of methane (marsh gas) and calculate the volume of air (21% oxygen) required to burn 18 litres of it.

10. (*a*) From what mineral (formula, if you can give give it) do plants obtain most of the phosphorus required by them? (*b*) In what parts of the bodies of animals is this element mostly stored up? (*c*) What is the formula of the phosphorus compound there found? (*d*) By means of a few formulas show the similarity between phosphorus compounds and arsenic compounds.

FACULTY OF MEDICINE.

Junior Materia Medica.

1. Give in detail the action of a vegetable bitter. Name two alkaloids used as bitters with the dose of each as such.

2. Name, with dose, three liquids and their dry preparations containing each of the following drugs: Aloes, Ammonium, Antimonium.

3. Classify irritants acting on skin, naming two drugs belonging to each class.

4. Give the action of Mineral Acids.

5. Give the composition and dose where possible of: Rochelle Salt, Linimentum Sinapis Compositum, Acidum Sulphuricum Aromaticum, Tinctura Valerianae Ammoniata and Gregory's Powder.

6. Classify the vegetable Cathartics, naming two drugs belonging to each class.

7. Name the preparations and their doses of Rheum.

8. Define: Parasiticides, Emollient, Demulcent, Errhine, Escharotic, Anodyne, Carminative.

FACULTY OF MEDICINE.

Senior Anatomy.

[NOTE.—Questions Nos. 6 and 7 and any other four constitute a full paper.]

1. Describe the diaphragm giving nerve and blood supply.

2. Describe right subclavian artery giving relations and naming branches.

3. Trace the obturator nerve outlining its function in full.

4. Describe fully the pleura.

5. Give the course and distribution of the inferior, maxillary nerve.

6. Describe fully (*a*) fissure of Rolando, (*b*) fornix, (*c*) internal capsule.

7. Write a short description of (*a*) right ventricle of heart, (*b*) mastoid process of temporal bone, (*c*) gall-bladder.

8. Write notes on (*a*) spermatic cord, (*b*) portal vein, (*c*) right semilunar ganglion.

FACULTY OF MEDICINE.

Senior Chemistry.

1. Build up the equation for the oxidation of oxalic acid by potassium permanganate and sulphuric acid.

2. What is meant by a reversible chemical reaction? Write an equation representing one.

3. (*a*) Explain clearly what is meant by *asymmetric carbon atom.* (*b*) What property is associated with the asymmetric carbon atom? (*c*) Mention three substances which have this property.

4. Calculate the heat of formation of acetylene from the following equation: $C_2H_2 + 5O = 2CO_2 + H_2O +$ 315Cal. [Heats of formation, CO_2, 97·6; H_2O, 68·4].

5. Describe carefully a case of (*a*) homogeneous equilibrium, and (*b*) one of heterogeneous equilibrium, indicating in each case how the equilibrium is affected by temperature.

6. (*a*) Describe the practical methods of making the chlorine-substitution products of methane. (*b*) Mention the various names given to these products. (*c*) Mention their uses.

7. (*a*) How is formic aldehyde made? (*b*) What are its properties and uses? (*c*) How is it related to glucose?

8. (*a*) Indicate the relationships of succinic, malic, and tartaric acids. (*b*) What is the source of tartaric acid and how is it made? (*c*) Give names and formulas of its important salts.

9. Write notes on (*a*) starch, (*b*) glycogen, (*c*) glucosides, (*d*) carbolic acid.

10. Indicate by formulas and description the relations of benzene, nitrobenzene, aniline, and acetanilide.

FACULTY OF MEDICINE.

Senior Physiology.

1. Describe the nervous mechanism that controls and regulates the heart beat in the frog.

2. What is meant by enzymes acting as catalyzers? Illustrate by referring to the action of lipase (steapsin).

3. What is meant by cutaneous respiration, by alimentary respiration? How do we know that oxidation takes place—not in the lungs, nor in the blood, but in the tissues? How is carbon dioxide carried in the blood?

4. Give the characters of lymph. Explain how it is returned from the lymph spaces to the blood.

5. Classify the salivary and buccal glands. What circumstances influence and control the character of the salivary juices?

6. How has the speech area been located? Name other areas connected with it and specify their relationship to the speech area. Distinguish *stammering*, *aphasia*, *aphemia* and *amnesia*, giving the cause of each.

7. Describe the muscular and nervous mechanism of standing and walking.

8. Explain the development of the vertebrate eye, and trace the pathway of nerve impulses from the rods and cones to the visual area of the cerebral cortex.

FACULTY OF MEDICINE.

Histology.

1. Write explanatory notes on: Endomysium, neurilemma, demilune cell, glomerulus and neuroglia.

2. Give the distribution of (*a*) ciliated epithelium, (*b*) involuntary muscle tissue, (*c*) adenoid tissue. Give a description of any one of the above.

3. Give the histology of (*a*) ovary (L. power), (*b*) a mature graafian follicle (H. power).

4. Draw a transverse section of the spinal cord naming all important parts shown.

5. Identify, draw, and describe specimens submitted.

FACULTY OF MEDICINE.

Pharmacology and Therapeutics.

1. Give source, dose and class of: Pelletierina, Apomorphina, Atropina, Caffeina, Cocaina, Salicinum, Elaterinum, Nitroglycerinum.

2. What effect have the following drugs on blood pressure: Amyl Nitrite, Digitalis, Aconite, Caffeine, Saline Solution, Suprarenal Extract? How demonstrated?

3. Enumerate causes of death due to administration of an anaesthetic. Give precautions to avoid such and the drugs with doses used to prevent death in such accidents.

4. Give action and uses of Terebinthina. Name two derivatives.

5. Through what changes do Benzoic Acid and Potassium Acetate and Sodium Bicarbonate pass in the system and how do these changes affect the system?

6. Give untoward symptoms of: Santonin, Arsenic, Red Iodide of Mercury.

7. Describe, give composition and dose where possible of: Pulois Doveri, White Precipitate Ointment, Diachylon Ointment, Hoffmann's Anodyne, Griffith's Mixture, Hydrargyrum Cum Creta, Pulois Glycyrrhizae Compositus, Thymol.

8. What effect have the following drugs on skin and its appendages and on mucous membranes: Nitric Acid, Carbolic Acid, Silver Nitrate, Sodium Hydrate?

9. State the different kinds of incompatibility and give an example of each.

FACULTY OF MEDICINE.

Practice of Medicine.—Third Year.

1. You suspect carcinoma of the pylorus. Verify your diagnosis (*a*) clinically, (*b*) physically, (*c*) chemically, (*d*) microscopically.

2. Define enteritis. Name the various forms of enteritis. What symptoms would lead you to diagnose colitis? How treat colitis? How would you distinguish between intestinal and renal colic?

3. What causes lead to cirrhosis of the liver? Give the most important symptoms. Explain the cardiac and renal complications.

4. What significance would you attach to the persistent presence of the following substances in the urine: sugar, albumin, epithelial casts, blood, acetone, and diacetic acid? Give tests for the last two.

5. Give symptoms and treatment of acute parenchymatous nephritis.

6. What symptoms would lead to a diagnosis of diabetes mellitus? Give prognosis, duration, and treatment of the disease.

FACULTY OF MEDICINE.

Junior Surgery.

1. Mention briefly, the phenomena of inflammation terminating in the formation of an acute abscess. Symptoms and treatment of carbuncle.....14

2. Symptoms, briefly, of the following: Erysipelas; Raynaud's disease, acute epiphysitis, rickets, pyæmia; traumatic fever.....18

3. Classify wounds. How do wounds heal? Prepare your hands, aseptically, for an operation.....16

4. A patient is suffering from pronunced shock, the result of a severe injury to leg. Treat the shock. To what extent would operative interference be justified?...10

5. In what manner do the following conditions affect operative work, viz: Alcoholism, robust health, leucocythæmia, hæmophilia, diabetes, atheroma.....12

6. How would you treat a sprain of ankle joint? Method of examination for "stiffness" in tuberculosis of hip joint? Treatment of tubercular synovitis of knee joint?.....20

7. Characteristic symptoms of the secondary period of syphilis? Outline briefly your treatment.....10

FACULTY OF MEDICINE.

Junior Obstetrics and Pediatrics.

1. Name in order, from above downwards, the structures which form the floor of the pelvis.

2. In a normal menstrual period, discuss the origin, composition, duration and amount of the flow.

3. You are called, in consultation, to see a woman six months pregnant. She complains of headache, nausea and epi-gastric pain. There is derangement of vision and puffiness of the face, hands and feet. Diagnose the case and advise treatment.

4. A multipara has been in second stage of labour, for one hour, the foetal head is still above the brim of the pelvis—will not engage—how would you proceed to deliver?

5. Give the causes, the dangers, and the treatment of a prolapsed funis.

6. Name the different forms of stomatitis and explain the cause of each.

7. Diagnose and treat a case of infantile scorbutus.

8. What degenerative changes may be found (*a*) in the blood, (*b*) in the nerves; in a well developed case of diphtheria.

FACULTY OF MEDICINE.

Medical Jurisprudence.

[Only five questions to be answered.]

1. Outline fully the duties of a coroner and describe the coroner's inquest.

2. From portions of a human skeleton how would you proceed to determine the probable age, sex and stature?

3. (*a*) Outline the chief characteristics of the different kinds of wounds. (*b*) What is the significance of the situation, shape and direction of a wound? (*c*) How would you determine whether a wound was inflicted before or after death?

4. Give symptoms, treatment, fatal period, fatal dose, and post-mortem signs in a case of acute poisoning by bichloride of mercury.

5. Describe the post-mortem appearances in a case of death from starvation. What diseases may produce similar signs and how would you distinguish these from starvation?

6. A man takes a tablespoonful of what he believes to be Epsom salts. Almost immediately he is attacked by a burning pain in the mouth, oesophagus and stomach, which soon radiates to the back and limbs. There is a sensation of tightness in the chest, he vomits a green colored mixture and purging sets in, followed by collapse. What is the probable cause of these symptoms? Outline your treatment in such a case.

FACULTY OF MEDICINE.

Pathology.—Third Year.

[N.B.—Answer five questions only.]

1. Describe fully the process of healing of a simple fracture in a long bone.

2. What are the sources and composition of emboli? Describe the changes occurring in the vessel following impaction of a simple embolus and tabulate possible effects on tissue supplied.

3. Give the distinguishing characters of simple and malignant tumors and describe any form of simple tumor in detail as to sites, gross appearance and microscopic structure.

4. What are cysts? Classify them, giving examples and describe any form in detail.

5. Describe the phenomena which occur in an acute bacterial inflammation ending in resolution, illustrating your answer by an example.

6. What are the causes of general fatty degeneration? Describe this process as it affects the heart, distinguishing it from fat infiltration of this organ.

FACULTY OF MEDICINE.

Junior Medical and Surgical Anatomy.

1. What is the deformity in fracture of the upper third of the humerus? Account for it.

2. Give the landmarks of the brachial and the ulnar arteries. Ligate the ulnar in upper third.

3. What is the deformity in femoral dislocation on to the dorsum illii? Account for it.

4. What is the action and nerve supply of the following muscles: deltoid, supinator brevis, obturator internus, popliteus, tibialis posticus?

FACULTY OF MEDICINE.

Sanitary Science.

1. (*a*) Classify food-stuffs and point out main functions of each class in the body economy. (*b*) What diseases of animals are capable of transmission through meat to man? Mention other ways in which meat may bring about disease in those partaking of it.

2. Mention the common methods in use for treatment of sewage and describe any one of these in detail.

3. (*a*) What is the composition of sewer air and its possible effects on those exposed to it? (*b*) What points are necessary to be attended to in the house connections to prevent entry of sewer air? A sketch giving points will be considered a good answer.

4. How would you disinfect (*a*) a house after a fatal case of pulmonary tuberculosis? (*b*) What materials require to be disinfected in typhoid fever, diphtheria and scarlet fever, and how would you disinfect them?

5. Describe the modes of infection and the means of prevention you would advise adopted in (*a*) smallpox, (*b*) plague, (*c*) syphilis.

FACULTY OF MEDICINE.

Senior Practice of Medicine.

1. Give an account of the appearance and pathology of (*a*) seborrhœic eczema, (*b*) lichen planus.

2. Describe a case of (*a*) minor epilepsy (*petit mal*), (*b*) Jacksonian epilepsy. Consider the elements of prognosis in each case.

3. Describe the symptoms of an advanced case of disseminated (insular) sclerosis. Differentiate incipient disseminated sclerosis from hysteria.

4. Give the causation, symptoms, prognosis, and treatment of chronic parenchymatous nephritis.

5. Describe the clinical history of a case of acute lobar pneumonia during the first four or five days. Show how the habits of the patient may influence (*a*) the treatment, (*b*) the prognosis in this affection. What are the evidences of pulmonary abscess?

6. Enumerate the various causes of jaundice. Discuss the etiology of a permanent jaundice in a man above the age of forty.

FACULTY OF MEDICINE.

Senior Surgery.

1. Give the symptoms briefly of (*a*) catarrhal appendicitis, (*b*) concussion of brain, (*c*) carcinoma (acinous) of breast, (*d*) strangulated hernia.....16

2. Diagnosis of (*a*) hydrocele, (*b*) aneurism of upper part of common carotid, (*c*) stone in bladder.....15

3. Treatment of (*a*) renal colic, (*b*) chronic cystitis, (*c*) anal fissure.....15

4. Method of reduction and after-treatment of dislocation backwards of (*a*) elbow, (*b*) first phalanx of thumb...12

5. Treatment of (*a*) fractured clavicle by Sayre's strapping, (*b*) fracture of both bones of forearm (about the middle), (*c*) Pott's fracture.....18

6. Exsect a portion of a rib for empyema. Excise a portion of small intestine, using Murphy's button. How would you control hemorrhage in amputation at hip joint? Lines of incision (*a*) for amputation of middle finger at metacarpo-phalangeal joint, (*b*) through lower third of thigh.....24

FACULTY OF MEDICINE.

Senior Obstetrics and Gynecology.

[NOTE.—Six questions only, out of the eight, to be answered, of which three must be obstetrical and three gynecological. All questions of equal value.]

Obstetrics.

1. What are the symptoms of (1) inevitable abortion, (2) incomplete abortion? How would you manage a case of incomplete abortion?

2. What is understood by "brow presentation"? Give the symptoms and management when seen and diagnosed early.

3. Name the early premonitory symptoms of puerperal eclampsia. State the treatment you would adopt when (1) an attack is simply threatened, (2) an attack seems to be inevitable.

4. Describe briefly the operation known as craniotomy. Name the conditions in which such an operation is justifiable.

Gynecology.

5. Give the appearance, symptoms, and treatment of urethral caruncle.

6. Give the causes and symptoms of retroversion of the uterus. Name three operations which have been devised for the relief of this condition.

7. What is pelvic cellulitis? Name the favorite localities for this form of infection to occur within the pelvis.

8. Describe the appearance and contents of a dermoid cyst.

FACULTY OF MEDICINE.

Pathology.—Fourth Year.

[N.B.—Answer five questions only.]

1. Describe the usual modes of infection and the lesions of tuberculosis of the bowel, giving their differential features.

2. Describe the causation and lesions of acute anterior poliomyelitis (early and late stages), together with the changes in the muscles affected.

3. Describe the causes, gross and microscopic lesions of acute broncho-pneumonia.

4. What forms of kidney are found giving the clinical features of chronic interstitial nephritis? Describe the gross and microscopic features of the common form and mention the lesions in other structures which are usually found to accompany it.

5. Describe the causation, lesions and possible terminations of acute diffuse periostitis of a long bone.

6. Describe the gross and microscopic features of enlarged prostate (hypertrophy) and explain its possible effects on urethra and bladder.

FACULTY OF MEDICINE.

Bacteriology.

1. An acute abscess is opened. How would you proceed to determine the causal bacterium and secure pure cultures?

2. What are the distinguishing characters of the micrococus Gonorrhoeæ (gonococcus) in pus? What proofs can be adduced as to its specific relationship to Gonorrhoea?

3. Describe the ordinary distribution of the Tetanus bacillus. How does man become infected? Describe the distribution of this bacillus in cases of Tetanus. Give its distinguishing morphological and staining characters?

4. Give the distribution of the Bacillus Coli apart from its connection with disease. What are its main morphological staining and cultural characters? What is its importance in water supplies?

5. Describe (*a*) three methods of securing anaerobic conditions; (*b*) endospores, and give four pathogenic bacteria forming them; (*c*) use of hanging drop preparations

6. (*a*) Differentiate between active and passive immunity, giving examples of production of each. (*b*) Describe a method for performance of the Widal or serum diagnosis test for typhoid fever, giving the principles on which the test is based.

FACULTY OF MEDICINE.

Diseases of the Eye, Ear, Nose and Throat.

1. What are the causes of Epiphora and how is it to be treated?

2. What are the indications for the removal of an eye? Describe the operation of enucleation and compare it with Mules' operation.

3. Describe the appearance of the normal membrana tympani on inspection, in an adult. Draw a picture of it. What is myringitis?

4. What is the treatment, in detail, for Epistaxis?

5. A child three years of age goes to bed quite well. In the middle of the night the parents are aroused to find the child breathing with difficulty and with a peculiar crowing noise. It is tossing about, first waving its hands in the air and then clutching at its throat. First it is red in the face and then becomes blue. In a few moments there is a long, noisy shrill inspiration and the child breathes again. There is no fever and no cough but some hoarseness. In the morning the child is apparently well and the hoarseness has disappeared. What is the trouble? State the possible causes and name the conditions with which it may be confused and the differential diagnosis.

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